CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Mar. 19	Lake City, Minn.	Mar. 8
Mar. 19	Pennington, N. J.	Mar. 15
Mar. 20	Brooklyn, N. Y.	Feb. 22
	Adv. Feb. 22 to Mar. 15.	
Mar. 20	Davenport, Neb.	Mar. 8
Mar. 20	Mount Greenwood, Ill.	Mar. 8
	Adv. Mar. 8 and 15.	
Mar. 20	Milwaukee, Wis.	Mar. 8
Mar. 20	Brooklyn, N. Y.	Mar. 1
	Adv. Mar. 1 to 15.	
Mar. 20	Canandaigua, N. Y.	Mar. 1
Mar. 20	Lamberton, Minn.	Mar. 15
Mar. 21	Roxboro, N. C.	Mar. 1
	Adv. Mar. 1 to 15.	
Mar. 21	Cleveland, O.	Mar. 15
Mar. 21	North Branch, Minn.	Mar. 15
Mar. 21	Baltimore, Md.	Mar. 15
Mar. 22	Niagara Falls, N. Y.	Mar. 15
Mar. 22	Phila., Pa.	Mar. 15
Mar. 22	Bellevue, Neb.	Mar. 15
Mar. 23	Wallingford, Conn.	Mar. 8
Mar. 23	Milwaukee, Wis.	Mar. 15
Mar. 26	Compton, Calif.	Mar. 15
Mar. 27	Weatherford, Okla.	Mar. 8
Mar. 27	New Ulm, Minn.	Mar. 15
Mar. 29	Waldwick, N. J.	Mar. 15
	Adv. Mar. 15.	
Apr. 1	Cresson, Pa.	Mar. 8
Apr. 2	West Chester, Pa.	Mar. 15
	Adv. Mar. 15.	
Apr. 4	Wheeling, W. Va.	Mar. 8
	Adv. Mar. 8 and 15.	
Apr. 5	Fayetteville, N. C.	Mar. 15
	Adv. Mar. 15.	
Apr. 10	Toronto, O.	Mar. 15
	Adv. Mar. 15.	
Apr. 12	Astoria, Ill.	Mar. 15
Apr. 26	New Orleans, La.	Mar. 8
	Adv. Mar. 8 and 15.	

SEWERS

Mar. 19	Lake City, Minn.	Mar. 8
Mar. 19	Pleasant Ridge, Mich.	Mar. 1
Mar. 19	Plainfield, N. J.	Mar. 1
Mar. 19	Newark, N. J.	Mar. 8
Mar. 19	Wash., D. C.	Mar. 15
	Adv. Mar. 15.	
Mar. 19	Scranton, Pa.	Mar. 15
Mar. 19	Chicago, Ill.	Mar. 15
Mar. 20	South Bend, Ind.	Mar. 8
	Adv. Mar. 8 and 15.	
Mar. 20	Paducah, Ky.	Mar. 8
	Adv. Mar. 8 and 15.	
Mar. 20	Nacona, Tex.	Mar. 15
Mar. 20	Chicago, Ill.	Mar. 15
Mar. 20	Long Island City, N. Y.	Mar. 15
Mar. 21	Brooklyn, N. Y.	Mar. 15
Mar. 21	Tonawanda, N. Y.	Mar. 1
Mar. 21	Kenmore, N. Y.	Mar. 8
Mar. 21	Chicago, Ill.	Mar. 15
Mar. 21	Bedford, Wis.	Mar. 15
Mar. 22	Marion, Wis.	Feb. 22
Mar. 22	Mamaroneck, N. Y.	Mar. 8
	Adv. Mar. 8 and 15.	
Mar. 22	Cleveland, O.	Mar. 15
Mar. 23	Chicago, Ill.	Mar. 15
Mar. 24	Milwaukee, Wis.	Mar. 15
	Adv. Mar. 15.	
Apr. 2	Glen Rock (Ridgewood P. O.), N. J.	Mar. 15
	Adv. Mar. 15.	
Apr. 6	Lyndonville, N. Y.	Mar. 15
	Adv. Mar. 15.	
Apr. 7	Pottstown, Pa.	Mar. 15
	Adv. Mar. 15.	
Apr. 10	Toronto, Ont.	Mar. 8
Apr. 10	Toledo, O.	Mar. 15
	Adv. Mar. 15.	
Apr. 16	Urbana, Ill.	Mar. 15
	Adv. Mar. 15.	

WASTE DISPOSAL

Mar. 27	Tampa, Fla.	Mar. 8

BRIDGES

Mar. 20	Manchester, N. H.	Feb. 22
Mar. 20	Indiana	Mar. 15
Mar. 20	Montezuma, Ia.	Mar. 15
Mar. 21	Brainerd, Minn.	Feb. 15
Mar. 22	Eau Claire, Wis.	Mar. 8
	Adv. Mar. 8 and 15.	
Mar. 23	Leamersville, Pa.	Mar. 8
Mar. 24	Brantford, Ont.	Mar. 8
Mar. 24	Missouri	Mar. 15
Mar. 26	Bowling Green, O.	Mar. 8
Mar. 27	Wilkes-Barre, Pa.	Mar. 1
	Adv. Mar. 1 to 15.	
Apr. 1	Wilkes-Barre, Pa.	Dec. 14
Apr. 3	North Carolina	Mar. 15
Apr. 6	Fresno, Calif.	Mar. 15
Apr. 10	Fonda, N. Y.	Mar. 15
Sept. 1	Sydney, New South Wales, Australia	Aug. 3

EXCAVATION, DRAINAGE, IRRIGATION

Mar. 19	Selmer, Tenn.	Mar. 1
Mar. 20	New York, N. Y.	Mar. 15
Mar. 21	Newton, Ia.	Mar. 1
Mar. 22	Buffalo, N. Y.	Mar. 15
Mar. 23	Houston, Tex.	Mar. 15
Mar. 26	Winchester, Ill.	Mar. 8
Mar. 27	Lamar, Colo.	Mar. 8
Mar. 29	Beardstown, Ill.	Mar. 8
	Adv. Mar. 8 and 15.	
Apr. 2	Webster City, Ia.	Mar. 15

STREETS AND ROADS

Mar. 19	Hammond, Ind.	Mar. 8
Mar. 19	Spokane, Wash.	Mar. 8
Mar. 19	San Diego, Calif.	Mar. 8
Mar. 19	Mineola, N. Y.	Mar. 8
	Adv. Mar. 8 and 15.	
Mar. 19	Greensboro, N. C.	Mar. 15
Mar. 19	Clarion, Ia.	Mar. 15
Mar. 19	Scranton, Pa.	Mar. 15
Mar. 20	Granite Falls, Minn.	Mar. 8
Mar. 20	Tampa, Fla.	Mar. 8
Mar. 20	Alabama	Feb. 22
Mar. 20	Sioux Falls, S. D.	Mar. 8
Mar. 20	Columbus, O.	Mar. 15
Mar. 20	Charlottesville, Va.	Mar. 15
Mar. 20	Long Island City, N. Y.	Mar. 15
Mar. 21	Washington, Pa.	Mar. 8
Mar. 21	Madison, Wis.	Feb. 22
Mar. 21	Ontario	Mar. 8
Mar. 21	Independence, Kan.	Mar. 8
Mar. 21	Preston, Minn.	Mar. 8
Mar. 21	Cleveland, O.	Mar. 15
Mar. 21	Enfield, N. C.	Mar. 15
Mar. 21	Baltimore, Md.	Mar. 15
Mar. 21	South Dakota	Mar. 15
Mar. 22	St. George, N. Y.	Mar. 15
Mar. 22	East Providence (Providence P. O.), R. I.	Mar. 8
Mar. 22	Worthington, Minn.	Mar. 8
Mar. 22	Madison, Wis.	Feb. 22
Mar. 22	Jefferson, Wis.	Mar. 15
Mar. 22	Fort Mill, S. C.	Mar. 15
Mar. 22	York, S. C.	Mar. 15
Mar. 22	South Dakota	Mar. 15
Mar. 22	Cleveland, O.	Mar. 15
Mar. 22	Cresco, Ia.	Feb. 22
Mar. 23	Madison, Wis.	Mar. 15
Mar. 23	Cincinnati, O.	Mar. 15
Mar. 23	South Dakota	Mar. 15
Mar. 24	Charlottesville, Va.	Mar. 8
	Adv. Mar. 8 and 15.	
Mar. 24	Missouri	Mar. 15
Mar. 24	South Dakota	Mar. 15
Mar. 26	San Rafael, Calif.	Mar. 15
Mar. 26	West Allis, Wis.	Mar. 15
Mar. 26	Des Moines, Ia.	Mar. 15
Mar. 26	Aberdeen, S. D.	Mar. 8
Mar. 27	St. Louis, Mo.	Mar. 15
Mar. 27	Washington	Mar. 15
Mar. 27	Peru, Ind.	Mar. 15
Mar. 27	Louisiana	Mar. 15
Mar. 27	Quebec	Mar. 15
Mar. 27	Michigan	Mar. 15
Mar. 27	Clinton, Ia.	Mar. 15
Mar. 27	Prairie du Chien, Wis.	Mar. 15
Mar. 27	Albert Lea, Minn.	Mar. 15
Mar. 27	South Dakota	Mar. 15
Mar. 28	Kalamazoo, Mich.	Mar. 15
Mar. 28	Owatonna, Minn.	Mar. 15
Mar. 28	Michigan	Mar. 15
Mar. 29	Michigan	Mar. 15
Mar. 30	Michigan	Mar. 15
Apr. 1	Huntingdon, Pa.	Feb. 8
Apr. 2	Stoneboro, Pa.	Mar. 15
Apr. 2	Hastings, Minn.	Mar. 15
Apr. 2	Hastings, Pa.	Mar. 15
Apr. 2	Lucerne, Minn.	Mar. 15
Apr. 3	Amsterdam, N. Y.	Feb. 1
Apr. 3	Rowland, N. C.	Mar. 15
Apr. 3	North Carolina	Mar. 15
Apr. 3	Pennsylvania	Mar. 15
	Adv. Mar. 15.	
Apr. 4	Holton, Kan.	Mar. 8
Apr. 4	Kentucky	Mar. 15
Apr. 4	South Dakota	Mar. 15
Apr. 5	Topeka, Kan.	Mar. 8
Apr. 5	South Dakota	Mar. 15
Apr. 6	Holton, Kan.	Mar. 15
Apr. 6	South Dakota	Mar. 15
Apr. 7	South Dakota	Mar. 15
Apr. 10	Washington	Mar. 15

INDUSTRIAL WORK

Mar. 20	New Haven, Conn.	Mar. 8
Mar. 27	Oswego, N. Y.	Mar. 1
	Adv. Mar. 1 to 15.	
Mar. 9	Juniata, Pa.	Mar. 8
Mar. 15	Hamilton, Ont.	Mar. 15
Mar. 17	Baltimore, Md.	Mar. 15
Mar. 30	Bridgeport, Conn.	Mar. 15
Apr. 1	Birmingham, Ala.	Mar. 15

BUILDINGS

Mar. 17	Fairfield, Conn.	Mar. 15
Mar. 19	Erie, Pa.	Feb. 15
Mar. 19	Milwaukee, Wis.	Mar. 8
Mar. 19	Westfield, Mass.	Mar. 8
Mar. 19	New Osborn, O.	Mar. 15
Mar. 20	Stockton, Calif.	Feb. 22
Mar. 20	Phila., Pa.	Mar. 15
Mar. 21	Sykesville, Md.	Mar. 8
Mar. 21	New York, N. Y.	Mar. 8
Mar. 21	Memphis, Tenn.	Mar. 8
Mar. 21	Brooklyn, N. Y.	Mar. 8
Mar. 22	Oil City, Pa.	Mar. 8
Mar. 22	Taunton, Mass.	Mar. 15
Mar. 22	Duluth, Minn.	Mar. 15
Mar. 23	Shreveport, La.	Nov. 9
Mar. 23	West Union, Ia.	Mar. 15
Mar. 24	Delanson, N. Y.	Mar. 15
Mar. 26	Cincinnati, O.	Mar. 1
Mar. 26	Ann Arbor, Mich.	Mar. 15
Mar. 26	West Orange, N. J.	Mar. 15
Mar. 27	New York, N. Y.	Mar. 15
Mar. 27	West Bend, Wis.	Mar. 8
Mar. 27	Fullerton, Calif.	Mar. 15
Mar. 29	Milwaukee, Wis.	Mar. 15
Mar. 30	Clearfield, Pa.	Mar. 8
Mar. 30	Sioux Falls, S. D.	Mar. 8
Mar. 31	Fairfield, Ia.	Mar. 15
Apr. 1	Freeport, Pa.	Mar. 8
Apr. 2	Syracuse, N. Y.	Mar. 1
Apr. 2	Morris Plains, N. J.	Mar. 15
Apr. 4	Marysville, O.	Mar. 15
Apr. 4	New Rochelle, N. Y.	Mar. 15
Apr. 10	Columbus, O.	Mar. 15
Apr. 31	Capa, S. D.	Mar. 8

FEDERAL GOVERNMENT WORK

Mar. 20	Dredging—Detroit, Mich.	Feb. 22
	Adv. Feb. 22 to Mar. 15.	
Mar. 21	Dredging—Phila., Pa.	Feb. 22
	Adv. Feb. 22 to Mar. 15.	
Mar. 21	Dredging—Detroit, Mich.	Feb. 22
	Adv. Feb. 22 to Mar. 15.	
Mar. 22	Tank and Tower — Memphis, Tenn.	Mar. 1
	Adv. Feb. 22 to Mar. 15.	
Mar. 22	Coal, etc.—Phila., Pa.	Mar. 15
Mar. 22	Coal—Memphis, Tenn.	Mar. 15
	Adv. Mar. 8 and 15.	
Mar. 26	Machine Shop—Staten Island, N. Y.	Mar. 8
Mar. 26	Extension — Kansas City, Mo.	Mar. 1
Mar. 26	Fuel Oil—Phila., Pa.	Mar. 15
Mar. 26	Wire, etc.—Memphis, Tenn.	Mar. 15
	Adv. Mar. 15.	
Mar. 28	Gates—Cincinnati, O.	Mar. 15
	Adv. Mar. 15.	
Mar. 29	Dredging — New York, N. Y.	Mar. 1
	Adv. Mar. 1 to 15.	
Mar. 29	Hospital — Livermore, Calif.	Mar. 1
	Adv. Mar. 1 to 15.	
Mar. 29	Acetylene Cylinders—Staten Island, N. Y.	Mar. 15
Mar. 30	Stone Work, etc. — Oswego, N. Y.	Mar. 15
	Adv. Mar. 15.	
Apr. 2	Head-Gate Track, etc. — Florence, Ala.	Mar. 8
	Adv. Mar. 8 and 15.	
Apr. 3	Dredging, etc. — Jacksonville, Fla.	Mar. 8
	Adv. Mar. 8 and 15.	
Apr. 3	Rope—Memphis, Tenn.	Mar. 15
	Adv. Mar. 15.	
Apr. 3	Dwelling, etc. — Shinnecock, N. Y.	Mar. 15
	Adv. Mar. 15.	
Apr. 5	Piling—Louisville, Ky.	Mar. 8
	Adv. Mar. 8 and 15.	
Apr. 6	Dredge Tender—San Francisco, Calif.	Mar. 15
Apr. 7	Metal—Vicksburg, Miss.	Mar. 15
	Adv. Mar. 15.	
Apr. 9	Dredging — New Orleans, La.	Mar. 15
	Adv. Mar. 15.	
Apr. 9	Cement—Louisville, Ky.	Mar. 15
	Adv. Mar. 15.	
Apr. 10	Lock—Newburg, Ind.	Mar. 1
Apr. 11	Removing Fenders — Norfolk, Va.	Mar. 15
	Adv. Mar. 15.	

Close Bids		News-Record See Eng.
Apr. 12	Machinery, etc. — Honolulu, H. T.	Mar. 1
Apr. 16	Tunnel, etc. — Mitchell, Neb.	Mar. 1
Apr. 16	Barges—Galveston, Tex. Adv. Mar. 15.	Mar. 15
May 10	Post Office — Cordova, Alaska	Jan. 25

MISCELLANEOUS

Mar. 19	Power Plant Machinery — Jacksonville, Fla.	Mar. 8
Mar. 19	Road Oil—St. Paul, Minn.	Mar. 15
Mar. 19	Lighting System — St. Paul, Minn.	Mar. 15
Mar. 20	Elevating Grader, etc.—St. Cloud, Minn.	Mar. 1
Mar. 20	Trucks, etc.—Trenton, N. J.	Mar. 15
Mar. 20	Asphalt Binder, etc. — New York, N. Y.	Mar. 15
Mar. 20	Asphalt Wearing Surface Sand—New York, N. Y.	Mar. 15
Mar. 21	Road Tractor — Granite Falls, Minn.	Mar. 8
Mar. 22	Steel Frame—New Orleans, La.	Mar. 8
Mar. 23	Heating and Ventilating Apparatus, etc.—Brooklyn, N. Y.	Mar. 15
Mar. 23	Retards—Clayton, Mo.	Mar. 15
Mar. 27	Transmission Line — Kanoroda, Kan.	Mar. 15
Mar. 29	Coliseum—Syracuse, N. Y. Adv. Mar. 15.	Mar. 15
Mar. 29	Concrete Aggregates — Michigan	Mar. 15
Apr. 9	Stadium—East Cleveland (Cleveland P. O.), O.	Mar. 15

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Binghamton—Bd. Pub. Wks. plans new mains in De Russey, LeRoy and Frederick Sts., Highland, Wheeler, Howard, Mason, Woodland and Guilfoyle Aves. $40,000-$50,000. W. E. Weller, city engr.

N. Y., LaSalle—Plans election to vote on $15,000 bonds for extending mains, also $24,500 bonds for 288,000 gal. water standpipe. Engineer not announced.

N. Y., Saranac Lake—March 20, to vote on $8,500 for installing new water pump.

W. Va., Wellsburg—City retained Hudson & Myron, engrs., Wabash Bldg., Pittsburgh, Pa., to prepare comprehensive report, plans and to supervise construction of filter plant, new pump and other improvements.

Tenn., Lewisburg—Plans to expend $125,000 for waterworks improvements. J. N. McCord, Mayor.

O., Columbus—See "Streets and Roads."

Wis., Dousman—Having plans prepared combined concrete foundation and reservoir, 30 ft. diameter, 10 ft. deep, and 20,000 gal. elevated steel tank on 80 ft. steel tower, concrete footings. $25,000. Mead & Seastone, Journal Bldg., Madison, engrs.

Wis., Madison—Plans main extensions in various streets. $25,000 appropriated. L. A. Smith, City Hall, supt. Water Dept.

Kan., Winfield—April 3 to vote on $112,000 bond issue for waterworks improvements. J. Wilfelt, waterworks mgr.

Minn., Sebeka — Plans complete waterworks system. $32,000. A. E. Olson, clk. Engineer not announced.

Mo., Kansas City—City retained Fuller & Maitland, engrs., 600 Warren St., to prepare plans for a new water plant. $11,000,000.

Mo., Kirksville—Voted $260,000 bonds and preparing plans filtration plant, pumps, tank, tower and addition to distribution system. Black & Veatch, 701 Mutual Bldg., Kansas City, engrs. Noted Feb. 22.

Mo., Wellston (St. Louis P. O.) — See "Streets and Roads."

Tex., Corsicana—April 3 to vote on $15,000 bond issue for water extensions. W. W. Harrison, city engr.

Tex., Granbury—March 20, to vote on $47,000 bond issue for waterworks improvements. A. T. Kieth, mayor.

Tex., Knox City—Voted $45,000 bonds issue for waterworks improvements. Address A. E. Arnold, mayor. Noted Feb. 22.

Tex., Dallas—April 3, to vote on $5,000,000 bond issue for water supply. G. D. Fairtrace, city engr.

Tex., Roscoe—March 24, to vote on $24,000 bond issue for waterworks and municipal improvements. Address Mayor.

Okla., Helena — Having plans prepared new well, water pumps and extensions to lighting distribution system. J. D. Bomford, Masonic Temple Bldg., Enid, engr.

Okla., Nowata — Having plans prepared 2,000,000 gal. filtration plant, 1,000,000 gal. concrete reservoir and pipe line. $62,500. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engr. Noted Dec. 28.

Ore., Astoria—Soon takes bids on 30 tons 6 in. c.i. pipe and fittings. O. A. Kratz, city mgr.

Calif., Anaheim—City soon takes bids furnishing and delivering 3,530 lin.ft. 4 in., 4,700 lin.ft. 6 in. and 1,640 lin.ft. 10 in. water pipe.

Calif., Clarksburg — See "Excavation, Drainage, Irrigation."

BIDS DESIRED

N. Y., Lyndonville—See "Sewers."

N. Y., Niagara Falls—March 22, by E. J. Fort, city mgr., Gluck Bldg., furnishing 5 hydrants, three 10 in. and sixty-three 6 in. valves, 36 tons 10 in., 3.75 tons 8 in. and 29.76 tons 6 in. c.i. pipe and 5,650 lb. specials. W. B. Bennett, Convention Hall, city engr. Noted Jan. 11.

N. J., Penington — March 19, by Boro Council, reconstructing water plant and installing duplicate gasoline driven pump and engine. H. L. Laning, 103 South Main St., engr.

N. J., Waldwick—March 29, by W. R. Evans, Jr., boro clk., furnishing 6.7 mi. c.i. pipe and special castings, etc. J. L. Collins, engr.; adv. this issue.

Pa., Phila.—March 22, by F. H. Caven, dir. pub. wks., chlorine apparatus for Roxboro filters, $10,000, furnishing 38 and 48 in. check valves, $10,000, c.i. water pipe, $75,000, structural iron, pipe and fittings, etc., $25,000 portable pneumatic air utility machine, $3,000. C. E. Davis, City Hall, engr.

Pa., West Chester—April 2, Boro Council, storage reservoir and dam. T. G. Colesworthy, boro engr., Remington & Vosbury, 601 Market St., Camden, N. J., consult. engrs.; adv. this issue.

Md., Baltimore — March 21, by Bd. Awards, furnishing and delivering c.i. pipe and fittings to Water Dept. W. A. Megraw, City Hall, engr.

N. C., Fayetteville—April 5, by Pub. Wks. Conn., waterworks and sewerage improvements. W. C. Olsen, Kinston, engr.; adv. this issue.

O., Cleveland—March 21, by Cuyahoga Co., 6,065 ft. 6 and 8 in. c.i. mains in Impvt. 27, for Co. Sewer Dist. 1. $40,000. R. F. MacDowell, Court House, engr.

O., Columbus—See "Streets and Roads."

O., Toronto—April 10, by Bd. Trustees of Pub. Affairs, water filtration plant. Hudson & Myron, 808 Wabash Bldg., Pittsburgh, Pa., engrs.; adv. this issue.

Ill., Astoria—April 12 by City Clerk, complete waterworks, incl. 30,000 gal. impounding reservoir, 2.5 mi. 6 in. c.i. pipe, 200,000 gal. per day rapid sand filter, 2 motor driven pumps, etc. $40,000. W. A. Fuller Co., 1917 Railway Exch., St. Louis, Mo., engrs. Noted Oct. 12.

Wis., Milwaukee—March 23, by R. E. Stoelting, comr. Pub. Wks., constructing Riverside Pumping Station, 1 story, 130 x 240 ft., brick and concrete, Humboldt Ave. Cost complete $1,500,000. Cl. Staal, City Hall, engr.

Minn., Lamberton — March 20, by city, main extensions, 18,000 lin.ft. c.i. pipe, 22 hydrants, etc. $27,000. F. A. Beiersdorf, clk. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs. Noted March 8.

Minn., New Ulm — March 27, by W. Backer, city clk., water and sewer improvements, 5,979 lin.ft. 6 in. pipe, 209 water services, 5,602 lin.ft. 2, 4 and 1 in. lead pipe; 3 lateral sewers, 780 lin.ft. 8 in. pipe, 3 brick manholes, fifteen 6 in. wyes, 3 flush connections, 216 sewer services. $23,300. F. D. Minium, city engr.

Minn., North Branch—March 21, by village, waterworks system, 20,415 lin.ft. 4-8 in. c.i. pipe, 49 hydrants, pump house, 20 x 100 ft., steel standpipe, etc. $30,000. C. L. Pillsbury Co., 1200 2nd Ave. S., Minneapolis, engrs. Noted Sept. 22.

Neb., Bellevue—March 22, by W. J. B. Kast, village clk., 5,550 lin. ft. 4 in. c.i. pipe, hydrants, stop valves, etc. $7,000. Trimble Co., 610 World-Herald Bldg., Omaha, engrs.

Calif., Compton—March 26, by Supervs. Los Angeles Co. (Los Angeles), waterworks system, near here, incl. (a) c.i. pipe and fittings (b) wrought iron pipe and fittings (c) steel tank and tower (d) pumping equipment and accessories (e) water distributing system, concrete pump house, pipe ducts and cleaning bed (f) iron body water valves (g) brass angle valves (h) steel A frame.

BIDS RECEIVED

Md., Baltimore—Bd. Awards opened bids March 7, addition to Montibello Filtration plant, Contr. 63, 365,000 cu.yd. excav., 74,000 cu.yd. rolled embankment, 45,400 cu.yd. concrete 3,760,000 lb. reinforcing, 800 tons setting c.i. pipe, valves and sluice gates, from Carozza-Rowe Constr. Co., 624 North Gilmor St., $1,248,955; Consolidated Eng. Co., Calvert Bldg., $1,310,194; Sanford & Brooks, Commerce and Water Sts., $1,414,816. Noted Feb. 15.

Calif., Antioch—For two 250,000 gal. concrete tanks, concrete flume and pump, from G. H. Field Co., Antioch, $12,340; two 2,000 gal. per minute horizontal centrifugal pumps, direct connected to two 20 hp. motors, from United Iron Wks., 580 2nd St., Oakland, $2,750; furnishing and installing 200 lin.ft. c. i. piping, fittings and 1 flow meter, from Tieslau Bros., 2819 Grove St., Berkeley, $3,000. Noted Jan. 15.

Calif., San Francisco—Constructing high pressure fire mains in portions Leavenworth, Jones and Beach Sts., (city to furnish material), from H. McGill, 763 San Bruno Ave., $15,771; J. R. McElroy, 180 Jessie St., $15,996; L. J. Cohn, 180 Jessie St., $16,484. Noted March 1.

Que., Montreal—Opened bids 13,300 ft. mains, from McAvity Co. Ltd., St. John, N. B., $56 per ton; Canada Iron Co. Ltd., Three Rivers, Que., $52.50 per ton; Cochrane Co., Ltd., Middlesborough, England, $53.25 per ton. Engrs. est. $300,000.

Porto Rico, San Juan—Bd. Awards received bids Nov. 29 at office M. Travieso, comr. Pub. Serv., 10,500,000 gal. filtration plant and 10,500,800 gal. filtered water reservoir, from Adriano Gonzalez, $349,000; F. Benitez Rexach $488,120; Robert Filter Mfg. Co., $645,000. All bids rejected. Noted Oct. 19.

CONTRACTS AWARDED

N. C., Greensboro—City Council, 7 mi. water pipe and 5 mi. sewers, to P. N. Howard, 118 West Martin St., Raleigh, $40,783. Noted March 1.

S. C., Canton—Furnishing 9,000 lin.ft. 15 in., 29,000 lin.ft. 18 in., 8,000 lin.ft. 24 in. and 1,500 lin.ft. 30 in. concrete pipe, to Canton Block & Tile Co., Canton.

O., Dayton—Montgomery Co. mains in lower Westwood Dist., to F. Krumholtz, Springfield (street address not available), $131,938; higher Lakeside Dist., to Crumley, Jones & Crumley, 2301 Concord St., Cincinnati, $79,861; lower Lakeside Dist., to C. F. Smith & Son, 54 Davies St., $32,131. Noted Feb. 15.

O., Wellsville—Dept. Pub. Serv., earthen reservoir and dam, to A. W. Hinaman, Canton, Pa., $110,333; furnishing 300 ft. 30 in., 11,000 ft. 16 in., 52,744 ft. 16 in. and 78 ft. 4 in. c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., 412 Oliver Bldg., Pittsburgh, Pa., $56,029; laying above pipe, to Allison-Harris Constr. Co., East Liverpool, $53,428. Noted March 1.

Mo., St. Louis—Missouri, Kansas & Texas R.R., Railway Exch. Bldg., 24 Graver Type K water softeners along its lines, to Graver Corp., 4809 Todd Ave., East Chicago, Ind.

Tex., Dallas — Water well to Trinity Sands in Oak Cliff, to Randolph & Steelsmith, Dallas, (street address not available) $43,606. Engrs. est. $60,000.

Tex., Dallas—See "Streets and Roads."

Colo., Walsenburg—Will lay 5 mi. c. i. Class B pipe, by day labor. $150,000. D. Cory, Walsenburg, engr.

Utah, Price—For 160 tons 4 and 6 in. c.i. pipe, etc., to D. C. Dunbar Co., 325 Walker Bank Bldg., Salt Lake City, $16,000; 460 tons 8 and 10 in. c.i. pipe, to U. S. Cast Iron Pipe Co., Dooley Bldg., Salt Lake City, $30,360.

Ont., Toronto—Plans reconstructing distribution system at Toronto Island, incl. 30,000 ft. c. i. pipe, mostly 6 in. $221,000. R. C. Harris, city engr.

Sewers

PROPOSED WORK

N. Y., Cuba—Village Trustees received no bids Feb. 24, sewerage system and sewage disposal works. Will readvertise. Hopkins & Field, 349 Cutler Bldg., Rochester, engrs. Noted Feb. 1.

Pa., Grove City—Voted $50,000 bonds for sewage disposal plant. Engineer not announced.

O., Cleveland — Plans sewage disposal plant in East 71st St., Cuyahoga Heights village. $3,000,000. R. Hoffman, City Hall, engr.

O., Columbus—See "Streets and Roads."

O., Grandview Heights (Columbus P. O.) —Preparing plans 8 and 10 in. sewers in various streets. $30,000. Burgess & Niple, 141 East Broad St., Columbus, engrs.

O., Warren — Plans sanitary sewers in Milliken Rd., Tennessee and Arlington Aves. $25,000. G. T. Hecklinger, clk. Engineer not announced.

Mich., Detroit—Had plans prepared 4,669 ft. 4 ft. 3 in. to 5 ft. cylinder sewer in Blaine Ave. Arm east in Blaine Ave. from

Sewers (Continued)

Lawton to **Wilson Sts., 1,842 ft. 4 ft. 3 in.** cylinder in **Blaine Ave. Arm west from** Lawton Ave. **to Dexter Blvd., 6,603 ft. 4** ft. to 6 ft. 6 in. **cylinder McGraw Ave.** Arm in McGraw and Hudson from Hartford to Linwood Aves., incl. 250 ft. 6 ft. 6 in., 1,186 ft. 6 ft. 3 in., 1,614 ft. 5 ft. 9 in., 1,090 ft. 5 ft., 870 ft. 4 ft. 9 in., 1,259 ft. 4 ft. cylinder. J. W. Reid, city engr.

Mich., Detroit — Had plans prepared vitr. crock sewers in Alley 3813, incl. 715 ft. 12 in.; Alley 3814, 2,816 ft. 12-24 in.; Alley 3821, 1,430 ft. 24-30 in.; Alley 3818, 1,172 ft. 12 in.; Alley 3805, 2,234 ft. 12-18 in.; Alley 3836, 1,600 ft. 12-18 in.; Alley 3837, 1,564 ft. 12-20 in.; Alley 3838, 1,062 ft. 12-18 in.; Alley 3808, 1,118 ft. 12 x 20 in.; Alley 3820, 5,000 ft. 12-24 in.; Alley 3824, 5,420 ft. 12 x 24 in.; Alley 3825, 3,580 ft. 12 x 20 in.; Alley 3817, 1,200 ft. 10-24 in.; Alley 3819, 313 ft. 12 in.; Alley 3839, 1,944 ft. 12-18 in.; Alley 3840, 1,874 ft. 12-18 in.; Alley 3841, 1,841 ft. 12-20 in.; Alley 3842, 1,421 ft. 12-18 in.; Alley 3843, 1,550 ft. 12 x 18 in.; Alley 3844, 725 ft. 12 in.; Alley 3845, 2,376 ft. 12-18 in.; Alley 3815, 202 ft. 12 in.; Alley 3823, 4,700 ft. 10-24 in., Alley 3827, 394 ft. 15 in., Alley 3828, 681 ft. 12 in. J. W. Reid, city engr.

Mich., Lansing—Plans water softening plant. $700,000. Alvord, Burdick & Howson. 8 South Dearborn St., Chicago, engrs.

Ill., North Brooke—Plans sanitary and storm sewers. $130,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Kan., Frontinac—A. T. Archer & Co., engrs., 609 New England Bldg., Kansas City, Mo., soon takes bids sanitary sewerage system. $50,000-$75,000.

Mo., University (St. Louis P. O.)—April 4, to vote on $136,000 bonds sewer through River Des Peres Valley.

Mo., Wellston (St. Louis P. O.) — See "Streets and Roads."

Tex., Dallas—April 3, to vote on $500,000 bond issue for sewage disposal improvements, also $150,000 for sanitary sewers. G. D. Fairtrace, city engr.

Calif., Newport Beach—Plan election in May to vote on $25,000 bonds for sewerage system and disposal plant.

BIDS DESIRED

N. Y., Brooklyn—March 21, by E. Rigelmann, boro pres., Boro Hall, sewers in Ocean Ave. between Ave. N and Ave. O, 41st St. between 15th and 16th Aves., Crown St. from Schenectady to Utica Aves.; sewer basins on Rutherford Pl. north and south sides, about 165 ft. east of east building line of 17th Ave., northeast corner of Bay 16th St., northeast and northwest corners of Bay 17th St., southwest corner of Barrett St. and Livonia Ave., Flushing Ave., northeast corner of East Ave., southwest corner of 81st St. and 4th Ave., northeasterly curb line of 86th St., northeast corner of 18th Ave. and 68th St., also delivering manhole heads and covers to Bureau of Sewers.

N. Y., Long Island City—March 20, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Winsor Pl. from 2nd to 4th Aves., Madison St. from Prospect Ave. to crown 420 ft. east of Prospect Ave., Pulaski St. from Hinman to Morton Aves., Speer St. from Central Ave. to Pulaski St., Griffith Ave. from Pulaski St. to Metropolitan Ave., Darrow St. from Griffith to Morton Aves., Wayne St. from Hinman St. to Griffith Ave., Steuben St. from Hinman St. to Morton Ave., Tiemann Ave. from Radcliff to Strong Sts., Vandeventer Ave. from 2nd to 5th Aves., Grand St. from Monteverde Ave. to crown 80 ft. east of center line of Ramsey St., Rockaway Blvd. from 90th to 91st Sts.

N. Y., Lyndonville—April 6, by Bd. Village Trustees, sewerage system, disposal works, and waterworks system. Hopkins & Field, 349 Cutler Bldg., Rochester, engrs.; adv. this issue.

N. J., Glen Rock (Ridgewood P. O.)—April 2, by Mayor and Boro Council, Smith-Singer Bldg., sewerage system, sewage disposal works and pumping station. H. J. Harder, 129 Market St., Paterson, civil engr.; adv. this issue.

Pa., Pottstown—April 7, at office M. L. Seasholtz, secy. Council, sanitary sewers. Gannett, Seelye & Fleming, Inc., 1 North Market Sq., Harrisburg, engrs.; adv. this issue.

Pa., Scranton—March 19, by City Controller, City Hall, furnishing 1 carload 12 in. and 1 carload 10 in. terra cotta sewer pipe. W. Lafontaine, dir. pub. wks.

D. C., Wash.—March 19, by Dist. Comrs., Room 509, Dist. Bldg., 1,285 ft. sewer; adv. this issue.

N. C., Fayetteville—See "Waterworks."

O., Cleveland — March 22, sewers in Avalon Rd. N. E. from Olympia Rd. N. E. to Roseland Rd. N. E., Alcoy Rd. N. E. from Euclid Ave. to northerly end, Algonac Rd. N. E. from Euclid Ave. to Olympia Rd. N. E., Austin Ave. N. E. from East 128th St. to 215 ft. easterly, Catalpa Rd. N. E. from Euclid Ave. to northerly end, Euclid Ave. from Wayside Rd. N. E. to city limits, Syracuse Ave. N. E. and Amsterdam Rd. N. E. from St. Clair Ave., N. E. to East 179th St., Syracuse Ave. N. E. and Brussels Rd. N. E. from Amsterdam Rd. N. E. to St. Clair Ave. N. E., Syracuse Ave. N. E. and Nottingham Rd. N. E. from Brussels Rd. N. E. to St. Clair Ave. N. E. R. Hoffman, City Hall, engr.

O., Columbus—See "Streets and Roads."

O., Toledo—April 10, by W. T. Jackson, dir. Pub. Serv., constructing intercepting sewerage system. Contr. 6. Fuller & McClintock, 319 Summit-Cherry Bldg., engrs.; adv. this issue.

Ill., Chicago—March 19 by Bd. Local Impvts., 207 City Hall, sewers in various streets. $155,792. C. D. Hill, ch. engr.

Ill., Chicago—March 20 by Bd. Local Impvts., 207 City Hall, sewers in various streets. $217,795. C. D. Hill, ch. engr.

Ill., Chicago—March 21 by Bd. Local Impvts., 207 City Hall, 107th St. sewer. $475,600. C. D. Hill, ch. engr.

Ill., Chicago—March 23 by Bd. Local Impvts., 207 City Hall, sewers in various streets. $205,700. C. D. Hill, ch. engr.

Ill., Urbana—April 16, by Bd. Trustees Urbana & Champaign Sanitary Dist., Flat Iron Bldg., intercepting sewers, sewage treatment plant and appurtenances. P. W. Wright, pres.; adv. this issue. Noted Dec. 14.

Wis., Milwaukee—March 24, by Metropolitan Sewerage Comn. of Milwaukee Co., 508 Market St., main sewer in 1st St., St. Francis, Elizabeth, Pensylvania and Thompson Aves. J. H. Fowles, secy., adv. this issue.

Wis., Prarie Du Chien—See "Streets and Roads."

Ia., Bedford—March 21, for Sect. 1, 21,413 ft. 8 in. and 2,637 ft. 10 in. sewers, 59 manholes, 10 flush tanks, etc.; Sect. 2, sludge bed, sprinkling filter, dosing chamber, etc. $34,000. Henningson Eng. Co., National Bldg., Omaha, Neb.

Minn., New Ulm—See "Waterworks."

Tex., Nacona—March 20, by City Council, 36,900 ft. 6-10 in. sewer pipe, 58 manholes, 24 lampholes, 3 disposal plants. Elrod Eng. Co., 3206 Elm St., Dallas, engrs. Noted Feb. 1.

BIDS RECEIVED

N. Y., Blasdell—Village Trustees opened bids Feb. 26, sewers from M. Heltz, 960 Ridge Rd., Lackawanna, $82,582, Irwin & Son, Barnesville, O., $89,881; disposal plant from G. W. Moore, 82 Richfield Ave., Buffalo, $63,557, Crooker & Carpenter, Inc., Niagara Life Bldg., Buffalo, $73,573. Noted Feb. 15.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., opened bids March 9, storm water sewer in 25th St. from point about 100 ft. northerly from north line of Riker Ave. to Ditmars Ave., etc., from Booth & Flynn, Ltd., Green and Tompkins Aves., Brooklyn, $528,002; Necaro Co. Inc., 97 Court St., Brooklyn, $536,890; Awixa Corp., Mt. Vernon, $575,039. Noted March 1.

O., Ashtabula—Opened bids Feb. 21, East Side Main Sanitary Sewer, 8,000 ft. 15-27 in. vitr. clay and 2,000 ft. 42 in. segmental block pipe, from C. Hukari, Ashtabula, $116,536; W. J. Erwin, Greenville, $118,520. Noted Feb. 15.

Wis., Milwaukee—Opened bids March 9, East High Level Sewer, Sect. 1 from Mason St. and Bway. to Cambridge and Brady Sts., 9,562 ft. 54-84 in. concrete sewer, 655 ft. 18 in. terra cotta pipe, from Wenzel & Henoch Co., 498 27th St., $495,468; H. Hohensee, Ladington Ave., Wauwatosa, $641,814; Knowles & Fehr, Inc., 314 North Dearborn St., Chicago, $774,642. Noted March 1.

Calif., Fresno—City Council opened bids March 1, sewers in Stanislaus St., 16,400 ft. 18-24 in. concrete and 1,772 ft. 8-12 in. vitr. pipe, from Merced Concrete Pipe Co., 16 and H Sts., Merced, $20,878; Frederickson & Shannon, Cory Bldg., $24,749; Thomson Bros., Divisadero and G Sts., $27,405. Noted Feb. 22.

CONTRACTS AWARDED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, sewers in East New York Ave. and Crown St., to A. Mannino, 263 86th St., 97.49% of engineers est. $8,773 and 95% engrs. est. $3,473 respectively; East 7th St., Ocean Ave. and Colonial Rd., to C. F. Vacharias, 643 40th St., 95% engrs. est. $8,517, 93% engrs. est. $4,122 and 107% engrs. est. $989 respectively; Belmont Ave., East 12th and Cleveland Sts., to G. L. Schrade, 693 Flatbush Ave., 94% engrs. est. $1,663, 90.4% engrs. est. $7,990 and 76% engrs. est. $2,296 respectively; Ave. O, to Tomasetti & Co., Inc., 1133 60th St., 97% engrs. est. $350. Noted Feb. 22.

N. Y., Scottsville—Bd. Village Trustees, sewerage system, to F. W. Hamilton, Rochester (street address not available), $54,000. Noted Feb. 1.

Pa., Phila.—Sewers in Ashdale St., to A. Pascuzzi, Lincoln Bldg., $14,564; Charles St., to O'Neill Co., 127th St. and Mermaid Lane, $39,985; Germantown Ave. and Haines St., to A. J. Ellis, 5724 North Marshall St., $6,882; Pratt St. and Grays Ave., to A. DeVite, 1721 Hicks St., $5,452 and $5,698 respectively. Noted March 8.

N. C., Greensboro—See "Waterworks."

O., Akron—W. F. Peters, dir. Pub. Serv., 2,930 ft. 39 in. and 340 ft. 45 in. brick sewer, Ohio Canal Intercepter, to T. E. McShaffrey Constr. Co., 171 South Forge St., $76,353. Engrs. ets. $62,000. Noted March 1.

O., Akron—W. F. Peters, dir. Pub. Serv., 1,400 ft. segmental block and vitr. sewer in West North St., to S. Erslan, 370 Bowery St., $12,707, engrs. est. $12,477; 3,705 ft. vitr. and brick sewer in South Arlington St., Contr. 2, 5th Ave. trunk, to T. E. McShaffrey Constr. Co., 171 South Forge St., $16,501, engrs. est. $16,631; 4,180 ft. segmental block sewer in Bye St. Contr. 1, to Iafornaro Constr. Co., 2218 Murray Hill Rd., Cleveland, $62,947, engrs. est. $67,662; 3,855 ft. segmental block and vitr. sewer in Bye St. Contr. 2, to C. Ruhlin, 518 Metropolitan Bldg., $54,530, engrs. est. $61,353; 860 ft. brick sewer in West Market St., to M. O. Toole, 155 Gale St., $30,005, engrs. est. $29,554. Noted Feb. 1.

Mich., Springwells—B. P. Esper, village clk., sewers in Sect. 25, Barclay Ave., 97; ft. 72 in., 867 ft. 60 in. pipe to J. Porath, 745 Griswold St., Detroit, $35,667; Sect. 26 in Michigan Ave., 758 ft. 72 in., 423 ft. 66 in., 355 ft. 60 in., 637 ft. 54 in., 303 ft. 48 in., 372 ft. 72 in., 393 ft. 36 in. pipe. Sect. 28 in Ford Rd., 597 ft. 60 in., 553 ft. 54 in., 2,668 ft. 48 in. pipe, Sect. 29 in Donald Ave., 739 ft. 62 in., 834 ft. 54 in., 2,675 ft. 48 in., 574 ft. 39 in., 412 ft. 27 in. pipe, Sect. 30 in Arthur Ave., 753 ft. 60 in., 3,513 ft. 48 in., 574 ft. 36 in., 287 ft. 24 in., to G. R. Cooke, 1260 Penobscot Bldg., Detroit, $42,951, $47,169, $65,415, and $65,353 respectively; Sect. 27 in Colson Ave., 1,279 ft. 10 ft., 1,314 ft. 9 ft. 6 in. sewer to R. Mercier 5435 Wesson Ave., Detroit, $107,345; Sect. 32 incl. 818 ft. 48 in., 915 ft. 42 in., 740 ft. 30 in. to P. Frandsen, 1167 Sellick Ave., Kenosha, Wis., $25,986; Sect. 31 in alley north of Pere Marquette R.R., 290 ft. 36 in., 840 ft. 30 in., 840 ft. 20 in. pipe, Sect. 33 in Warren Ave., 508 ft. 42 in., 241 ft. 39 in., 1,189 ft. 36 in., 600 ft. 33 in., 319 ft. 30 in., 300 ft. 27 in., 309 ft. 24 in., 319 ft. 20 in., to Hammen & Co., 4612 Woodward Ave., Detroit, $14,217 and $35,071 respectively; Sect. 35 in Rome Ave., 451 ft. 60 in., 638 ft. 48 in., to Lennane & McIlvenna, 1205 Book Bldg., Detroit, $16,197. Noted Jan. 18.

Ill., Villa Park—Sewerage system to H. Reese, Quincy, Engrs. est. $100,000. Noted Oct. 19.

Ill., Dwight—Sewage disposal plant, to C. D. Reeber, Dwight. Engrs. est. $25,000. Noted April 27.

Mo., Harrisonville — C. A. Burke, city clk., rein.-con. disposal plant, 45,000 ft. 6-12 in. sewers, trench work, flush tanks, etc., to J. O'Neil, 119 4th Ave., Leavenworth, Kan., $47,395. Work includes furnishing and laying 8 in. pipe at $0.37 per ft., 10 in. $0.50, 12 in. $0.60, 15 in. $0.85 and 6 in. $0.26. Noted Feb. 22.

Calif., Santa Ana—Constructing ocean end of joint outfall sewer line, to Deward & Cobham, Granger Bldg., San Diego, $43,000; screening work to Teget & Cox, 222 Harvard Pl., Antario, $10,900. Noted March 1.

Waste Disposal

PROPOSED WORK

Wis., West Allis—Preparing specifications and soon takes bids new garbage incinerator, first unit 20 ton capacity, eventually 40 ton. $25,000-$30,000. W. Darby, City Hall, engr.

Ont., Birchcliffe—Scarboro Twp. having plans prepared for garbage incinerator, brick. $50,000. C. E. Fraser, Birchcliffe, engr.

CONTRACTS AWARDED

Pa., Phila.—Foundation for Harrowgate incinerator, to G. F. Dobbins, 4615 Springfield Ave., $91,638. Noted March 8.

Bridges

PROPOSED WORK

Conn., Ansonia—Plans repairs to bridge, Maple St., steel and concrete. $10,000. Dept. Pub. Wks., City Hall, engrs.

Bridges (Continued)

N. Y., Troy—Preparing plans converting one section of present steel span bridge into lift span, over Hudson River, Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs.

O., Lakewood (Cleveland P. O.)—Cuyahoga Co. (Cleveland) plans concrete bridge, probably on Hillard Rd., here. $800,000. F. R. Lander, Court House, Cleveland, engr.

Kan., Solomon—Dickinson Co. (Abilene), having plans prepared 150 ft. rein.-con. bridge over Solomon River, 20 ft. roadway. Marsh Eng. Co., 205 Masonic Temple, Des Moines, Ia., engrs.

Mo., Kansas City—Kansas City Terminal Ry. Co., Union Sta., having plans prepared 820 ft. steel and rein.-con. viaduct, 30 ft. wide with one 5 ft. sidewalk, also preparing preliminary plans for rein.-con. and steel viaduct over railroad tracks, both in East Bottoms. Latter costs $150,000-$200,000. J. V. Hanna, c/o owner, engr.

Tex., Guadalupe—Seguin Co. having plans prepared 172 ft. concrete girder bridge, 4 spans, 20 ft. roadway, over Nash Creek on State Highway 3. $25,000. S. C. McCarty, co. engr.

Wash., Seattle—See "Streets and Roads."

Calif., Merced—See "Streets and Roads."

Ont., Barrie—Simcoe Co. voted $35,000 for bridges. R. J. Fletcher, clk.

Ont., Toronto—Plans to remove and replace Winchester St. Bridge, probably concrete. $25,514. R. C. Harris, city engr.

Ont., Walkerton — See "Streets and Roads."

BIDS DESIRED

N. Y., Fonda—April 10, by E. S. Walsh, supt. Pub. Wks., Albany, bridge across Mohawk River between here and Fultonville, 1,722 cu.yd. 2nd class concrete, 5,350 sq.ft. concrete sidewalk on approaches and bridge spans, 733, 500 lb. structural steel, 68,000 lb. metal reinforcement and 465 cu.yd. concrete roadway on bridge spans and approaches. $163,867.

North Carolina—April 3, by State Hy. Comn., Raleigh, constructing bridges and culverts on State Project 971, Madison Co., 1,782 cu.yd. concrete, 205,430 lb. reinforcing, 1,750 lb. plates and bolts, $60,000; State Project 293, Wilson Co., 766 cu.yd. concrete, 88,080 lb. reinforcing, 41,000 lb. structural steel, etc., $32,000; State Project 437, Harnett Co., 1,074 cu.yd. concrete, 124,000 lb. reinforcing, 2,200 ft. untreated timber piles, 1,790 lb. plates and bolts, $40,000; State Project 392, Robeson Co., 1,020 cu.yd. concrete, 150,000 lb. reinforcing, 3,250 lb. plates and bolts, 4,000 ft. untreated timber piles, $43,000; State Project 485 A, Wake Co., 1,570 cu.yd. concrete, 222,800 lb. reinforcing, 2,160 lb. plates and bolts, $65,000; State Project 616, Cabarrus Co., 1,546 cu.yd. concrete, 196,900 lb. reinforcing, 1,840 lb. plates and bolts, $50,000; State Project 944, Haywood Co., 1,271 cu. yd. concrete, 137,000 lb. reinforcing, 1,080 lb. plates and bolts, $45,000; State Project 213, Craven Co., 5,200 ft. untreated timber sheet piling, 1,240 cu.yd. concrete, 145,120 lb. reinforcing, 3,000 ft. untreated timber piles, 1,480 lb. plates and bolts, $49,000. C. M. Upham, state highway engr. Noted March 8.

Indiana—March 20, by J. D. Williams, dir. State Hy. Comn., Indianapolis, constructing following bridges: one 60 ft. steel truss over Otter Creek, on State Rd. 4C, Warrick Co.; rein.-con. arch two 82 ft., over Lost River and rein.-con. arch two 60 ft., over Lick Creek on State Rd. 4K, Orange Co.; one 28 ft. rein.-con. girder over Knowles Ditch, one 40 ft. steel truss over drainage ditch and one 30 ft. arch extension over dredged ditch on State Rd. 10A, Vanderburgh Co.; one 60 ft. steel truss over Hurricane Creek, State Rd. A, one 55 ft. steel truss over drainage ditch, one 28 ft. rein.-con. girder over dredged ditch and one 72 ft. steel truss over dredged ditch, on State Rd. 10B, Gibson Co.; one 50 ft. rein.-con. arch over Lake Drain Creek, on State Rd. 18A, Spencer Co.; one 84 steel truss over Sycamore Creek, on State Rd. 22F, and one 30 ft. rein.-con. girder over drainage ditch on State Rd. 121, Morgan Co.; one 30 ft. rein.-con. girder over drainage ditch and one 30 ft. rein.-con. girder over Price Ditch on State Rd. 5C, Daviess Co.; three 12 ft., five 16 ft., three 18 ft. and one 20 ft. rein.-con. slabs in Orange, Daviess, Greene, Morgan, Delaware, Gibson and Owen Counties.

Wis., Jefferson—See "Streets and Roads."

Wis., Madison—E. E. Parker, engr., City Hall, taking bids rein.-con. and steel bridge, 60-65 ft. rein.-con. arch span, 36 ft. roadway, on East Johnson St. $25,000. Noted July 27.

Ia., Montezuma—March 20 by Auditor Poweshiek Co., 13 box culverts, 4 I-beam bridges and 4 pony trusses. C. E. Olson, Montezuma, engr.

Kan., Holton—See "Streets and Roads."

South Dakota—See "Streets and Roads."

Missouri—March 24, by State Hy. Dept., Jefferson City, one 25 ft. rein.-con. deck girder, one 80 ft. steel truss, one 20 ft. and one 35 ft. rein.-con. slab spans, 20 ft. roadways, 6 rein.-con. abutments, on road from De Soto to Potosi, State Project Route 21, Sect. 4, Washington Co.; one 30 ft. I beam, one 80 ft. and one 70 ft. steel truss spans, 20 ft. roadways, 4 rein.-con. bents and 2 rein-con. abutments, on road from Portageville to Arkansas state line, State Project Route 9, Sect. 142, Pemiscot Co.; six 25 ft. and one 40 ft. I beam, twenty 10 ft. rein.-con. and one 80 ft. steel truss spans, 20 rein.-con. piers, 4 rein.-con. bents and 4 rein.-con. abutments, on road from Fisk to Dexter, State Project Route 16, Sect. 83, Stoddard Co.; two 20 ft. rein.-con., slab, three 30 ft. and three 40 ft. rein.-con. deck girder, one 25 ft. rein.-con. girder and one 60 ft. steel spans, 20 ft. roadways, 16 rein.-con. abutments, etc., on road from St. Louis to Festus, State Project Route 9, Jefferson Co.; five 120 ft. steel truss spans, 4 rein.-con. piers, 2 rein.-con. bents, over Little Piney River, on road from St. Louis to Springfield, State Project Route 14, Sect. 48 A, Phelps Co.; one 60 ft. steel truss span, 2 rein.-con. abutments, 20 ft. roadway, over Loter Hollow Branch, State Project Route 14, Sect. 48A, Phelps Co.; one 30 ft. rein.-con. deck girder span, 2 rein.-con. abutments, 20 ft. roadway, on road from Appleton City to Henry Co. line, State Project Route 24, Sect. 13, St. Clair Co.; one 120 ft. and two 80 ft. steel truss spans, 2 rein.-con. piers, 2 rein.-con. bents, 20 ft. roadway, over Cedar Creek, on road from Jefferson City to Columbia, State Project Route 7, Sect. 43, Callaway Co.; one 35 ft. rein.-con. deck girder span, 2 rein.-con. abutments, 20 ft. roadway, over Hooker Branch, on road from Waynesville to Arlington, State Project Route 14, Sect. 46, Pulaski Co.; fifteen 20 ft. rein.-con. slab spans, 16 rein.-con. pile bents, over Bowdry Lake, on road from Waverly to Carrollton, State Project Route 3, Sect. 35, Carroll Co.; three 60 ft. steel and one 30 ft. rein.-con. deck girder spans, 20 ft. roadway, 2 rein.-con. piers, 2 rein.-con. bents, 2 rein.-con. abutments, over Nodaway River, on road from Oregon to Savannah, State Project Route 1, Sect. 21, Andrew and Holt Counties; three 100 ft. steel truss spans, 2 rein.-con. piers, 2 rein.-con. bents, 20 ft. roadway, over Nodaway River, on road from Oregon to Savannah, State Project Route 1, Sect. 21, Holt Co.; three 70 ft. steel truss spans, 2 rein.-con. piers, 2 rein.-con. bents, 20 ft. roadway, over Turnback Creek, on road from Phelps to Halltown, State Project Route 14, Sect. 9, Lawrence Co.; one 60 ft. steel truss span, 2 rein.-con. abutments, 20 ft. roadway, over Billies Creek, on road from Phelps to Halltown, State Project Route 14, Sect. 10, Lawrence Co.; one 80 ft. steel truss span, skewed, 2 rein.-con. abutments, 20 ft. roadway, over Drainage Ditch on road from North Kansas City to Liberty State Project Route 10, Sect. 1, Clay Co.; one 40 ft. rein.-con. deck girder span, 2 rein.-con. abutments, 20 ft. roadway, over Salt River, on road south of Lancaster, State Project Route 7, Sect. 6, Schuyler Co.; one 100 ft. steel truss span, 20 ft. roadway, 2 rein.-con. abutments, over Johnson Creek, on road from Phelps to Halltown, State Project Route 14, Sect. 9, Lawrence Co.; one 20 ft. rein.-con. slab and one 25 ft., rein.-con. deck girder spans, 4 rein.-con. abutments, 20 ft. roadways, on road from Neosho to Anderson, State Project Route 1, Sect. 108, McDonald Co.; one 40 ft. rein.-con. deck girder span, 2 rein.-con. abutments, 20 ft. roadway, over Branch of Fabines River on road from Lancaster to Kirkville, State Project Route 7, Sect. 3, Schuyler Co.; one 40 ft. rein.-con. deck girder span, 2 rein.-con. abutments, 20 ft. roadway, over Dicks Creek, on road from Golden City to Lamar, State Project Route 36, Sect. 6, Barton Co. B. H. Piepmeier, state highway engr.

Calif., Fresno—April 6, by D. M. Barnwell clk., Fresno Co., constructing 2 trestle bridges, total length 629 ft. Work includes 130,000 ft. lumber, 150 piles, each 30 ft. long. C. P. Jensen, Cory Bldg., co. surv.

BIDS RECEIVED

Virginia—See "Streets and Roads."

Colorado—See "Streets and Roads."

CONTRACT AWARDED

Pa., Lewistown—Mifflin Co., 780 ft. rein.-con. bridge, 7 spans, connecting Lewistown with Lewistown Junction, to Whittaker & Diehl, Union Trust Bldg., Harrisburg, $269,400.

West Virginia—State Rd. Comn., Charleston, Linn Bridge 848, Project 3100, Gilmer Co., concrete and steel, substructure to P. J. Wallace, Kitzmiller, Md., $7,606, superstructure to E. R. Mills, Newport, Ky., $7,097, Tannery Bridge 83, Project 3149, Gilmer Co., concrete and steel, substructure to Wisely-Clark Constr. Co., Waynesboro, Va., $4,653, superstructure to E. R. Mills, Newport, Ky., $9,497; steel bridge across K. & M. tracks, Witcher Co., to Wisely Clark Constr. Co., Waynesboro, Va., $42,952. Noted Feb. 15, under "Streets and Roads."

S. C., Converse—State Hy. Comn., at office Spartanburg Co. Highway Comn., Spartanburg, constructing bridge over Pacolet River, here, to P. S. Minus, Spartanburg, $73,541. Former contract rescinded. Noted Feb. 8.

Wis., Black River Falls—Wisconsin Hy. Comn., Madison, 521 ft. deck plate girder bridge, here, to Wausau Iron Wks., Wausau, additional concrete at no greater depth $25 per cu.yd., additional concrete at greater depth $35, reduction in concrete $8, etc., total $82,300; approach to J. Tormoen, Black River Falls, 172 cu.yd. earth excav. $0.30, 4,122 cu.yd. borrow excav. $0.60, 2,005 sq.yd. concrete surfacing $1.45, etc., total $7,650. Noted Feb. 22.

Ia., Northwood — Worth Co., 2 pony trusses and I beam, to A. Olson Constr. Co., Waterloo, $21,350; two I beams to C. W. Pederson, Northwood, $10,800; 23 box culverts to C. Jensen, Thompson, $5,555.

Minn., Duluth — McDougall Terminal Warehouse Co., 600 ft. rein.-con. and steel viaduct, 24 ft. driveway, 6 ft. sidewalk, over railroad tracks, to Stack Constr. Co., 306 Sellwood Bldg., $100,000.

Tex., Liberty—Liberty Co. concrete pile trestle bridges on State Highway 3, to Tibbetts Constr. Co., 2094 8th St., Ft. Worth, $217,995, sublet to Austin Bros. Bridge Co., Coombs St., Dallas. Noted March 8.

Wash., Westport — Grays Harbor Co. (Montesano), building 7 small trestle bridges and rebuilding South Bay Trestle, near here, to Pacific Constr. Co., Aberdeen, $28,733. Engrs. est. $30,000.

Ore., Portland — Repairing Burnside Bridge draw, 20 ft. span, 202,000 lb. steel, to S. R. Booth, Railway Exchange Bldg., $39,390. Noted Feb. 15.

Dams

PROPOSED WORK

N. J., Hightsown—See "Miscellaneous."

BIDS RECEIVED

Calif., Napa—City opened bids Feb. 26, constructing dam for Milliken Canyon water project (a) stripping, using Channeler Cut, concrete rock secured adjacent to dam site, and grout holes and gunite (b) same as "a" but eliminating Channeler Cut (c) stripping, using Channeler Cut, concrete rock secured elsewhere than dam site, also grouting and gunite (d) same as "c" but eliminating Channeler Cut (e) stripping, using cut, concrete rock adjacent to dam site, with sand made from the rock, grouting and gunite (f) same as "e," but eliminating cut, from J. May, Napa, (a) $257,567 (b) $241,617 (c) $331,527 (d) $315,577 (e) $201,637 (f) $185,687; Bent Bros., 1714 Eagle St., Los Angeles, (b) $226,469; L. F. Youdall, Commercial & Savings Bank Bldg., Stockton, (a) $219,107 (b) $196,457 (c) $295,647 (d) $272,997 (e) $185,947 (f) $163,297; Sherman & Kraner, Balboa Bldg., San Francisco, (a) $206,216 (b) $216,898 (c) $306,418 (d) $289,918 (e) $177,138 (f) $160,638; Bordwell & Zimmerman, Calistoga, (a) $150,790 (b) $141,800 (c) $199,978 (d) $190,988 (e) $126,970 (f) $117,980; Constr. Co. of North American, Mills Bldg., San Francisco, (a) $241,754 (b) $222,354 (c) $326,754 (d) $307,354 (e) $218,674 (f) $199,274; Arndt & Vensano, 58 Sutter St., San Francisco, (b) $272,118 (d) $310,518 (f) $210,198; Schultz Constr. Co., 46 Kearny St., San Francisco, (a) $191,666 (b) $172,516 (c) $250,276 (d) $231,126 (e) $176,346 (f) $157,196. Noted Feb. 8.

Calif., Oroville—Oroville-Wyandotte Irrigation Dist., earth fill dam (material to be furnished by owner), from C. A. Bayles, Biggs, $35,711; Hughes & Murphy, Marysville, $36,512. Noted Feb. 22.

Railways

PROPOSED WORK

Washington — Longview, Portland & Northern Ry. Co., Kelso, withdrew former plans for railway. Will have revised plans prepared for 26 mi. double track. Bids limited to firms who bid on 8½ mi. advertised Jan. 1. $1,000,000. Noted Dec. 7.

California—Atchison, Topeka & Santa Fe R.R. 6th and Main Sts., Los Angeles, double tracking 60 mi. road from Daggett to Bagdad, to Sharp & Fellows, Central Bldg., Los Angeles, $3,000,000.

California—City of Oakland having plans prepared constructing belt line railroad to connect with main lines in and about Oakland estuary. To exceed $25,000. R. Isabee, city harbor engr.

Railways (Continued)

CONTRACTS AWARDED

California — See "Miscellaneous" under Eureka.

Excavation, Drainage, Irrigation

PROPOSED WORK

Ia., Carroll — Carroll Co. having plans prepared constructing D. D. 90, 4,000 lin.ft. open ditch, 20,000 cu.yd. excav., 69,650 lin. ft. 6-48 in. tile. $55,000. I. W. Hoffman, Carroll, engr.

Ia., Sioux City—W. M. Prichard, aud. Woodbury Co., takes bids in April, drainage work. $175,000. C. Moriarty, 513 U. S. Bank Bldg., engr.

Mo., Corning—Mill Creek Dyke & Drainage Dist., plans about 14 mi. open ditch incl. main and lateral ditches, 430,000 cu. yd. dry earth excav., on part of work, excavated earth will be used as levees on each side of ditch. $51,600. B. B. Hurst, Rockport, engr.

Calif., Clarksburg — Holland Land Co. having plans prepared irrigating 1,245 acres in Yolo Co., water to be pumped by either 10 in. pump and motor of two 8 in. pumps and motors. Project includes pumping plants, concrete pipe line and ditches. $50,000. Eng. Dept. of C. C. Morse Seed Co., 729 Front St., San Francisco, engrs.

Canada—Dominion Government, Ottawa, plans dredging in Yarmouth Harbor $85,000, Little Current $71,000, Maritime Provinces $600,000, Ontario and Quebec $735,000. Manitoba, Saskatchewan and Alberta $130,000, British Columbia $400,000.

BIDS DESIRED

N. Y., Buffalo—March 22, by Dept. Pub. Wks., Municipal Bldg., dredging Buffalo Inner Harbor to completed contract depth for maintenance of channel. A. W. Kreinheder, comr. G. H. Norton, Municipal Bldg., engr.

N. Y., New York—March 20, by Holmes & Winslow, archts., 134 East 44th St., excavation for erection of bank addition, for North Side Savings Bank, 3230 3rd Ave. $75,000.

Ill., Winchester—March 26, by Comrs. Scott Co. Drainage and Levee Dist., at office W. L. Bagshaw, secy., raising and strengthening levees of District, 443,327 cu. yd. excav. Jacksonville Eng. Co., Jacksonville, engrs.

Ia., Webster City—April 2, by Auditor Hamilton Co., D. D. 246, Sect. 1, excav. at tile outlet, Sect. 2, railroad crossing, Sect. 3, 7,580 ft. 22-30 in. tile, Sect. 4, 2 brick manholes, etc. $25,000. R. G. Austin, Webster City, engr.

Tex., Houston—March 23, by D. D. 1 of Harris Co., 500,000 cu.yd. earth excav., culverts, etc. $25,000. J. S. Burhe, 1518 Walker Ave., engr.

BIDS RECEIVED

Calif., Oroville—See "Dams."

CONTRACTS AWARDED

O., Cleveland—Dredging Cuyahoga River, 140,000 cu.yd. excav., to Great Lake Dredge & Dock Co., Williamson Bldg., $49,557. Noted March 1.

Minn., Jackson — Jackson Co., County Ditch 3, Jobs 3 and 4, 42,641 cu.yd. excav., 5 retaining walls, 52 cu.yd. concrete, to M. Sorenson, Windom, $10,500; 28,000 lin.ft. 6-26 in. tile, to O. M. Sanderson, Windom, $14,289. Noted Nov. 1.

Mo., Whitham—Whitham D.D., cleaning 12 mi. drainage ditch, about 50,000 cu.yd. excav., also 2½ mi. levee, about 130,000 cu. yd. excav., to McWilliams Dredging Co., 332 South Michigan St., Chicago, $36,000. Noted Feb. 15.

Streets and Roads

PROPOSED WORK

Conn., Ansonia — Plans paving Lester, Central and North Main Sts., and Wakelee Ave., asphalt or concrete. $80,000. Dept. Public Wks., City Hall, engrs.

N. Y., Binghamton—Broome Co. plans to expend $133,000 for highways. Engineer not announced.

N. Y., Binghamton—Plans repaving 1,800 ft. Moffatt Ave.; paving 500 ft. Center St., 1,800 ft. Shenango St., 1,400 ft. Murray St., 3,000 ft. State St., 500 ft. Newton Ave., 1,400 ft. Sherwood Ave. and 5,600 ft. Broad Ave., all brick. W. E. Weller, city engr.

N. Y., Elmira—Bd. Pub. Wks. soon takes bids resurfacing and new pavements on streets. To exceed $25,000. G. W. Jarchow, clk.

N. Y., Holley—Plans paving 1 mi Main St., macadam. $35,000. N. L. Cole, village pres.

ROAD WORK—LIBERTY, TEX.

Following are lowest three bids opened by Liberty County, Feb. 16, for grading and constructing bridges on State Highway No. 3, (A) Howard Kenyon Dredging Co., 3603 McKinney Ave., Houston; Smith Bros., 311 Central State Bank Bldg., Dallas; J. F. Hamer, Stop Interurban 6, Ft. Worth. The unit bids were as follows:

	A	B	C	D
172.5 acres clearing	$30.00	$65.00	$40.00	$25.00
86.64 acres grubbing	85.00	85.00	80.00	90.00
29120.4 cu. yd. earth roadway excavation	.175	.17	.156	.24
667481.0 cu. yd. earth borrow excavation	.175	.19	.156	.24
275000.0 cu. yd. earth borrow excavation (Dragline)	.175	.16	.156	.24
44223.3 sta. yd. earth overhaul	.03	.035	.04	.03
1781.5 sta. yd. sodding embankment	1.50	2.50	4.00	3.25
34176.0 lin. ft. wood guard fence	.40	.60	.65	.75
Extended totals bridges	$200,232	$220,837	$196,500	$278,037
687769.0 lbs. reinforcing steel	$0.045	$0.0475	$0.05	$0.065
7040.16 cu. yd. class A concrete	17.25	16.00	18.75	22.00
340.0 cu. yd. 1:1½:3 concrete	18.00	17.50	21.25	17.50
8090 cu. yd. structural excavation	1.00	.50	.75	.50
20045.0 lin. ft. concrete piles	2.45	2.70	2.90	3.25
100.0 lin. ft corrugated iron pipe 24 in.	3.50	3.30	3.20	2.50
200.0 lin. ft. ½ round C. I. pipe 42 in.	5.00	5.60	5.00	3.65
8275.0 lin. ft. type "C" (concrete rail)	1.50	1.30	2.10	2.25
Extended totals	$222,194	$217,995	$251,051	$290,688
Extended grand totals	$422,426	$438,832	$447,552	$568,808

N. Y., Medina—Plans paving Park Ave. $35,000-$40,000. C. H. Pettis, village pres.

N. Y., Niagara Falls—Plans paving 3,123 ft. Royal Ave., 30 ft., granite, wood block, asphalt block, sheet asphalt, brick or bitulithic. $86,600 based on granite or wood block. W. Bennett, Convention Hall, city engr.

N. Y., Perry — March 20, to vote on $50,000 bonds for new pavements and macadamizing streets. G. H. Peddle, village pres.

N. Y., Schenectady—Bd. Pub. Wks. plans resurfacing Van Vranken Ave. $30,000. G. I. Howard, city engr.

Pennsylvania — Armstrong Co., Kittanning plans 3½ mi. Kittanning-Indiana Rd., 18 ft., brick on concrete base or rein.-con., $130,000. Elderton Boro. to pay 40% and county 60% of cost. Indiana Co., (Indiana) will also build 2 mi. of above mentioned road, $100,000.

Pa., Erie—Plans paving 4 streets in Frontier Pl. Subdivision, asphalt, $254,000. F. G. Lynch, city engr.

Pa., New Castle—Plans paving Sampson St., brick. $25,000. Engineer not announced.

Pa., Scranton—Plans paving Walnut and Clearview Sts., sheet asphalt and stone blocks on concrete. $30,717. W. Lafontaine, dir. pub. wks.

Pa., Wilkes-Barre—Plans paving Sherman and Madison Sts., sheet asphalt with stone or concrete curbs. $25,000. F. H. Gates, city clk.

Va., Portsmouth—Norfolk Co. plans constructing 3.5 mi. concrete road and 13 mi. surface treated macadam on Route 12, from here to South Mills, N. C., 16 or 18 ft., $175,000; 12½ mi. concrete road on Route 27 from Great Bridge to Northwest, 16 or 18 ft., $275,000. R. B. Preston, New Kirn Bldg., co. engr.

West Virginia—State Rd. Comn., Charleston, rejected bids opened March 6, concrete paving 3 mi. road from Kanawha Co. line toward Walton, Project 3240, Roane Co., $105,745; grading and concrete paving 4.53 mi. road from Project 3025 to Harrison Co. line, Project 125, Taylor Co., $316,762; grading and gravel surfacing 2.8 mi. Ravenswood-Sandyville Rd., Project 3132 A, Jackson Co., $82,928. Noted Feb. 15.

W. Va., Logan — Logan Co. election March 31, to vote on $600,000 bonds for road work. If passed State will add $472,000. J. M. McClaren, co. engr.

W. Va., Williamson—Stafford Dist., Mingo Co., voted $360,000 bonds for improving Tug River Highway. L. C. Linkous, Williamson, engr.

N. C., Lincolnton — Lincoln Co. plans hardsurfacing 7 mi. road from Aspen St., Lincolnton, to Catawba Co. line, and 5 mi. road from Aspen St. to Gaston Co. line. $360,000. R. C. Goode, chn. Bd. Co. Comrs.

N. C., Rockingham—City plans grading and paving various streets. $100,000.

Fla., Miami—Dade Co. plans election to vote on $205,000 bonds paving and repaving Dixie Highway. H. Crabtree, co. engr.

Ky., Hartford—Ohio Co. voted $300,000 bonds for road work.

Ohio—Dept. Highways and Pub. Works, Columbus, cancelled bids which were to be opened March 13, grading, bridging and brick paving 1.085 mi. Sect. "D" Columbus-Wooster Rr., Delaware Co., $53,904. Noted March 8.

Ohio, Cincinnati—Hamilton Co. plans grading and paving 6,740 ft. Sect. "Cleves" Cincinnati-Louisville I.C.H., 38, 16 ft., 16,000 sq. yd. concrete and concrete gutter, 3,650 cu. yd. earth excav., $61,249; 24,200 ft. Sheed Rd., 16 ft., 15,000 cu. yd. earth excav., 2,040 cu. yd. 1:2:4 concrete 43,050 sq. yd. bituminous macadam, $122,425; 9,800 ft. Boomer Rd., 16 ft., 4,000 cu. yd. grading, 13,100 sq. yd. bituminous macadam, $34,165. E. A. Gast, Court House, co. surv.

Ohio, Columbus—Preparing plans grading, laying necesary water services and sewer conections and paving 1,320 ft. Bellows Ave. from Hawkes to Glenwood Aves., 26 ft., brick $23,053, asphalt $19,738; 288 ft. Olentangy St. from Indianola Ave. to Kensington Court, 50 ft., asphaltic concrete $5,912; 807 ft. Broderick St. from Jones Ave. to Hartford St., 28 ft., brick $3,584, concrete $3,002; 2,092 ft. Montrose Way from Olentangy Blvd. to Torrence Rd., 50 ft., asphalt, $33,149; 457 ft. alley north of Mithoff St., 20.68 ft., brick $3,666, concrete $2,898; 1,754 ft. alley north of Lane Ave., 20 ft. brick $13,123, concrete 10,215; 351 ft. alley west of Summit St., 20 ft. brick $2,686, concrete $2,115; 461 ft. alley north of Kich St., 16 ft., brick $2,959, concrete $2,334; 455 ft. alley north of 4th Ave., 20 ft., brick $2,686, concrete $2,115; 400 ft. alley west of Henry St., 20 ft., brick $2,906, concrete $2,270; 375 ft. alley north of 3rd Ave., 20 ft. brick $2,853, concrete $2,235; 347 ft. alley north of King Ave., 18 ft. brick $2,408, concrete $1,901; 287 ft. 2nd alley north of King Ave., 18 ft. brick $1,868, concrete $1,475; 443 ft. alley north of Vermont Ave., 20 ft. brick $3,523, concrete $2,783. R. H. Simpson, city engr.

Ohio, Grand View Heights (Columbus P. O.)—Preparing plans, grading, curbing and macadam or asphalt paving on concrete 4,500 ft. Northwest Blvd., 40 ft., 2 driveways with park between, each 20 ft.; 300 ft. Holly Ave., 800 ft. Parkway North, 600 ft. Norton Ave., 300 ft. Dover Road, 1,800 ft. 2nd Ave., 800 ft. Parkway Dr., 1,200 ft. Bulford Rd., 1,500 ft. Thomas Ave., and 600 ft. Timberman Dr., all foregoing 25 ft., $225,000. Burgess & Niple, 141 East Broad St., Columbus, engrs.

O., Warren—Plans cement sidewalks and paving Trumbull Parkway, Butler Rd. and Crescent Dr., various materials. $25,000. G. T. Hecklinger, clk.

Michigan—State Hy. Dept., Lansing soon takes bids grading and concrete surfacing 6 mi. State Trunk Line Rd. 11-25, Oceana Co., 6 mi. Federal Aid Project 76, Macomb Co., 4 mi. Federal Aid Project 118, Muskegon Co., 3 mi. State Trunk Line Rd. 27-16, Sect. A, St. Clair Co., 4¼ mi. Federal Aid Project 71, Sect. A. F. F. Rogers, state highway engr.

Michigan—State Hy. Dept., Lansing, soon takes bids grading and surfacing 1¼ mi. Federal Aid Project 68, Sect. C, Clinton Co., concrete. F. F. Rogers, state comr.

Ill., Cerro Gordo—Plans paving 20,000 yd. various streets. $100,000. Marr, Green & Co., 400 North Michigan St., Chicago, engrs.

Ill., Lemont — Plans paving various streets. $150,000. Marr, Green & Co., 400 North Michigan St., Chicago, engrs.

Ill., Norris—Plans paving Freemont and Vine Sts., $45,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Park Ridge—Preparing plans paving various streets. $110,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Rochelle—Plans paving 15,000 yd. various streets. $90,000. Marr, Green & Co., 400 North Michigan St., Chicago, engrs.

Ill., Wenona—Plans paving Walnut St. $50,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Wis., Fond du Lac—Bd. Pub. Wks., soon takes bids paving Rose Ave., 8th, 7th, 5th, Connell, McWilliams, 13th, Garfield, Ellis and Ruggles Sts., alternate bids on 57,393 sq.yd. concrete, sheet asphalt or asphaltic

Streets and Roads (Continued)

concrete, 42,690 lin.ft. combined concrete curb and gutter, 1,417 lin.ft. concrete retaining curb. G. H. Stanchfield, City Hall, engr. Noted Dec. 21.

Ia., Centerville—Appanose Co. takes bids July grading 9 mi. road. F. L. Davis, Centerville, engr.

Ia., Council Bluffs—Plans resurfacing 5 streets, 50,000 yd., various types. E. E. Spetman, Council Bluffs, engr.

Ia., Ottumwa—Auditor Wapello Co. soon receives bids paving 20,000 yd. Federal Aid Project 13, brick $66,000, concrete $58,000. J. N. Brody, Ottumwa, engr.

Kan., Girard—Crawford Co. had plans prepared and soon takes bids constructing 11.5 mi. Jefferson Highway, Federal Aid County Project 6 Sect. 221, 18 ft. chat. C. M. Cooper, co. engr.

Kan., Hutchinson—Plans asphalt paving 41 blocks. R. B. Lee, city engr.

Kan., St. Francis—Cheyenne Co. soon takes bids constructing 14 mi. earth road Federal Aid Project 145, Sects, A and B, Air Line Rd., 28 ft. Kansas Eng. Co., Topeka. (street address not available), engr.

Kan., Topeka—Shawnee Co. having plans prepared paving 5.465 mi. Federal Aid Project 141, Sects, A and B, 18 ft., 35,078 cu. yd. earth excav., 68,923 sq. yd. concrete, 37,655 lb. reinforcing, etc. Kansas Eng. Co., Topeka, (street address not available), engrs.

Kan., Topeka—Soon takes bids 31 blocks asphaltic concrete paving and 21 blocks concrete alley paving. W. E. Baldry, city engr.

South Dakota—State Hy. Dept., Pierre, plans improving 12 mi. Federal Aid Project 134, from Armour to Tripp Rd., Douglas Co., 84,000 cu.yd. excav., 336 cu.yd. concrete, 33,000 lb. reinforcing steel, etc., $58,-639; 7.06 mi. Federal Aid Project 140, from Sturgis to Whitewood Rd., Lawrence and Mead Counties, 57,000 cu.yd. excav., 350 cu.yd. concrete, 35,000 lb. reinforcing steel, 3 concrete viaducts, $65,050.

South Dakota—State Hy. Dept., Pierre, plans 280.9 mi. surfacing in 1923 as follows: 3.3 mi. Project 14 B, Stanley Co.; 17.5 mi. Project 28, Charles Mix Co.; 2.4 mi. Project 34, Spink Co.; 14.4 mi. Project 45, Grant Co.; 6 mi. Project 54, Grant Co.; 9.6 mi. Project 55, Deuel Co.; 11.9 mi. Project 56, Sully Co.; 13.1 mi. Project 61 A, Brule Co.; 12.8 mi. Project 61 B, Brule and Turora Counties; 12.4 mi. Project 61 C, Aurora Co.; 12.4 mi. Project 63, McPherson Co.; 9.4 mi. Project 73, Campbell Co.; 12.4 mi. Project 74, Douglas Co.; 11.7 mi. Project 82, Brookings Co.; 14.6 mi. Project 83, Kingsbury Co.; 8.7 mi. Project 85, Clark Co.; 6.6 mi. Project 86, Sanborn Co.; 6.9 mi. Project 87, Lake Co.; 13.4 mi. Project 88, Meade Co.; 5.5 mi. Project 93, Miner Co.; 14.4 mi. Project 94, Spink Co.; 14.2 mi. Project 96, Roberts Co.; 6.6 mi. Project 99, Brown Co.; 13 mi. Project 125, McCook Co.; 11 mi. Project 138, Lawrence and Meade Counties. F. D. Hudgins, state highway engr.

N. D., Carrington—Plans paving 5 blocks. $30,000. C. C. Carnahan, city clk.

Mo., Kansas City—Preparing plans paving Locust St., 15,000 sq.yd. bituminous macadam. A. McCabe, park engr.

Mo., Marysville—Preparing plans concrete paving various streets, $50,000. Shockey Eng. Co., 801 Graphic Arts Bldg., Kansas City, engrs.

Mo., Odessa—Preparing plans concrete paving various streets $50,000. Shockey Eng. Co., 801 Graphic Arts Bldg., Kansas City, engrs.

Mo., University (St. Louis, P. O.)—April 4, to vote on $35,000 bonds resurfacing Delmar Blvd. from eastern city limits to Harvard Ave.

Mo., Wellston (St. Louis P. O.)—Tegethoff & Vatterott, Tegethoff Bldg., Clayton, having surveys made for streets, walks, mains, electric wire conduits and sewers, for new subdivision at Ferguson and Etzel Aves., here. $150,000.

Tex., Alice—Jim Wells Co. voted $600,000 bonds for highway improvements. Engineer not selected.

Tex., Corsicana—April 3, to vote on $75,000 bond issue for street paving. W. W. Harrison, city engr.

Tex., Dallas—City Com. soon takes bids paving Forest Ave. from Meadow to 2nd Aves., 40 ft., bituminous or wood block. $26,994. G. D. Fairtrace, city engr.

Texas, Dallas—April 3, to vote on $1,250.00 bond issue for street improvements. G. D. Fairtrace, city engr.

Tex, Marshall—State Hy. Comn., Austin, granted Harrison Co. $36,500 aid for bituminous surfacing Jefferson Highway east and west from here. G. A. McClellan, co. engr.

Okla., Okmulgee—Plans paving 12 blocks 6th St. from Alabama St. to St. Louis and San Francisco R.R. tracks, vitr. brick. T. J. Embree, Okmulgee, engr.

Okla., Ponca City—Plans paving 60 blocks North 7th St., various types pavement. A. M. Stalnaker, city engr.

Colo., Grand Junction—City Clerk opens bids about April 11, concrete paving 19,-294 sq.yd. East Main St., Dist. 7. $82,-890. T. E. Thompson, city engr.

Colo., Grand Junction—Plans paving 24 Streets and 4 alley blocks in Dist 8, probably concrete. T. E. Thompson, city engr.

Utah, Ogden—Weber Co. soon takes bids hardsurfacing road from 24th St. viaduct to Wilson St., various types. $50,000. A. Brown, co. engr.

Washington—State Hy. Dept., Olympia, had plans prepared and soon receives bids, grading and gravel surfacing Chelan-Okanogan Highway, 4 mi. from Ophir Grade to Brewster, and 6 mi. from Riverside to Omak, also 7 mi. State Rd. 4 from Anglin 7 mi. southeast; grading and surfacing with crushed rock and gravel 30 mi. Jared-Metalline Falls Rd., in Pend Oreille Co., 4 concrete bridges; grading and surfacing with crushed rock 7 mi. Inland Empire Highway from Colville to Meyers Falls, Stevens Co., 8 mi. Sunset Highway, revision of line at Hairpin curve, 1 mi. west of Spokane, Spokane Co., 7 mi. Chelan-Okanogan Highway, from Columbia River bridge to Rock Island, Douglass Co.; grading and paving with 7 in. concrete 0.6 mi. Sunset Highway crossing Deep Creek Canyon, Spokane Co., $25,000, 7 mi. Sunset highway from Spokane Lincoln County line west to Reardon, in Lincoln Co. Address G. G. Harvey, Realty Bldg., Spokane, engr. for State Rd. Dist. 7.

Wash, Seattle—City and King Co. having plans prepared and take bids about March 29, preliminary work in connection with paving 3 mi. arterial highway, 7 in. concrete, 20 ft. Grading and relocation wark $75,000. paving $75,000. J. D. Blackwell, city engr. T. R. Beeman, co. engr.

Wash., Seattle—King Co. having plans prepared and takes bids about March 29 constructing 2 mi. Stuckey Rd. from Dockton to Molita on Maury Island, incl. piling trestle. $70,000. T. R. Beeman, co. engr.

Oregon—State Hy. Comn., Salem, plans to expend about $10,000,000 on road work during 1923. Work will include about 60 mi. pavement, 300 mi. broken stone and gravel surfacing, and 300 mi. grading. H. Nunn, state highway engr.

Calif., Fresno—Had plans prepared improving McKenzie Ave. between Fresno Ave. and 9th St., 49,450 sq.ft. concrete sidewalks, 10,023 lin.ft. concrete curbs; Olive Ave. between Forthcamp and Harrison Sts., 14,137 sq.ft. concrete sidewalks. W. Stranahan, city engr.

Calif., Merced—Merced Co. takes bids about March 20, sub-grading and paving with rock screenings 4 in. thick, also several small bridges in Rd. Impvt. Dist. 5. To exceed $25,000. A. E. Cowell, Merced, engr.

Calif., Newport Beach—Plan election in May to vote on bonds paving 1½ mi. main streets.

Calif., San Bernardino—San Bernardino Co. takes bids about March 28, paving with macadam 5 mi. Big Bear Valley Rd. E. T. Ham, co. surv.

Calif., San Francisco—City and San Francisco Co. soon takes bids improving Vicente St. between Forest and 19th Aves. Former bids rejected. M. M. O'Shaughnessy, city engr. Noted March 1.

Calif., Santa Rosa—Soon takes bids grading, reshaping, paving, curbing and guttering Benton St. between Mendocino and Ripley Sts., 58,501 sq. ft. 3 in. warrenite bitulithic, $11,115; 5th St. from D to North Sts., 47,377 sq.ft. 3 in. warrenite bitulithic, $9,001; North St. from 4th to 24th Sts., 64,026 sq.ft. 1½ in. warrenite bitulithic on 2½ in. bituminous concrete, $14,728; Benton St. between North and Mendocino Sts., 80,167 sq.ft. 1½ in. warrenite bitulithic on 2½ in. bituminous concrete, $18,408. L. L. Mills, city engr.

Calif., Vacaville—Plan to vote on $40,-000 bonds paving various streets. F. A. Steiger, Fairfield, engr.

Ontario—Dept. Pub. Highways, Dundas St. and University Ave., Toronto, plans to take over 25 mi. road from Acton through Milton to Bronte, and convert into provincial highway, macadam. $500,000. G. Hogarth, ch. engr.

Ont., Kitchener—Waterloo Co. plan 2½ mi. concrete road between St. Clements and Heidleburg, 30,000 sq.yd. concrete. $80,-000. S. Cassell, County Bldg., clk.

Ont., L'Orignal—Prescott Co. plans to expend $25,000 on roads this year, mostly gravel construction, and large part of work will be done by day labor. F. H. Senecal, clk.

Ont., Toronto—Soon receives bids grading Byron Ave. from Chatham to Danforth Aves. and Chatham Ave. from Jones to Byron Aves. $62,000. R. C. Harris, city engr.

Ont., Walkerton—Bruce Co. voted $220,-000 bonds for gravel and macadam roads and bridge work. G. A. Stevenson, Walkerton, engr.

BIDS DESIRED

N. Y., Buffalo—March 21, by Dept. Pub. Wks., Municipal Bldg., constructing and repairing concrete sidewalks and sidewalk approaches, grading opening gutters and hard surfacing unpaved streets, etc. A. W. Kreinheder, comr.

N. Y., Long Island City—March 20, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., curbing, laying sidewalks, etc. on Crescent and Hallett Sts. from Ditmars to Woolsey Aves.; grading sidewalk and sidewalk spaces and laying sidewalks, etc., on northerly side of Sackett St. from point about 100 ft. east of 42nd to 46th Sts.; grading, curbing and laying sidewalks on Sherwood St. from Rowan to Lenox Aves., 80th St. from Atlantic to 101st Aves., 156th St., from Sanford to 43rd Aves., 44th St. from Jackson to Polk Aves.; grading and sheet asphalt paving 80th St. from Atlantic to 101st Aves.

N. Y., St. George—March 22, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and concrete paving Satterlee St. from Amboy Rd. to Satterlee Lane, Satterlee Lane from Satterlee St. to property line of city of New York, Terminal of new ferry to South Amboy; grading Livermore Ave. from Watchogue Rd. to point 800 ft. southerly to width of 30 ft., centrally located bituminous macadam paving same to width of 16 ft. centrally located.

Pennsylvania—April 3, by State Hy. Dept., Harrisburg, reconstructing 40 mi. bituminous surface on concrete or one-course rein.-con. pavement, 30 mi. one-course rein.-con. and 3 mi. bituminous macadam. P. D. Wright, state highway comr.; adv. this issue.

Pa., Hastings—April 2, by Boro Council, repaving 2,370 ft. Bridge Ave. and Beaver St., brick on concrete or rein.-con. $30,000. I. J. Pfeister, Spangler, engr.

Pa., Scranton—March 19, by W. Lafontaine, dir. pub. wks., paving Richmont St. from Blvd. Ave. to city line, $36,055, Myrtle Ave. from Washington to Monroe Aves. $34,477, Sherman Ave. from Luzerne to Washington Aves. $24,637, Grandview St. from Blvd. St. to Wyoming Ave. $23,528, 4th Ave. from Emmett to Railroad Aves. $23,239, William St. from Wayne to Margaret Sts. $17,207, Orchard St. from Cedar to Pittston Sts. $14,035, Myrtle St. from Quincy to Clay Aves. $10,041, Kirst Court from Rosen Court to Coyle Pl. $7,784, Evans Court from Lafayette to Swetland Sts. $7,716, Costello Court from Ash to Poplar Sts. $4,651, Page Pl. from Franklin to Mifflin Aves. $2,491, Buenzil Court from Linden to Mulberry Aves. $3,097.

Pa., Stoneboro—April 2, by E. E. Smith, boro. secy., pavements on Lake and Walnut Sts. T. F. Pattinson, boro. engr.; adv. this issue.

Md., Baltimore—March 21, by Bd. Awards, building Phoenix Rd., Contr. 64, Water Dept., 5,200 sq.yd. concrete roadway, 10,040 cu.yd. earth excav. and embankment. W. A. Megraw, City Hall, engr.

Va., Charlottsville—March 20, by Clerk Albermarle Co., improving 5.59 mi. Monticello Rd. from Scottsville Rd. to Overton, 21,000 cu.yd. excav., 5,558 lb. reinforcing, 23,792 sq.yd. 8 in. bituminous macadam; 1 mi. Scottsville Rd. between Sta. 365-20 and 418-00, 1,000 cu.yd. excav., 8,800 sq. yd. concrete surfacing; 0.62 mi. Woolen Mills Rd. between here and Woolen Mills, 15 ft., 2,000 cu.yd. excav., 5,500 sq.yd. concrete.

North Carolina—April 3, by State Hy. Comn., Raleigh, improving 6.74 mi. State Project 971, Madison Co., 29 acres clearing, 72,000 cu. yd. common and 11,700 cu. yd. rock excav., 2,958 ft. 18-30 in. concrete pipe, 211 cu. yd. concrete, 16,350 cu. yd. gravel or shale surfacing, $57,000; 5.67 mi. State Project 802, Avery Co., 17,500 cu. yd. common and 34,100 cu. yd. rock excav., 2,734 ft. 18 and 24 in. pipe, 703 cu. yd. rubble masonry, 46,520 sq. yd. waterbound or penetration macadam, $120,000; 6.97 mi. State Project 835, Henderson Co., 94,-700 cu. yd. common excav. and borrow, 29,600 cu. yd. rock excav., 1,100 ft. 18 and 30 in. concrete pipe, 76,190 sq. yd. concrete or asphaltic paving, 488 cu. yd. concrete, 32,000 lb. reinforcing, $283,000; 10.43 mi. State Project 213, Craven Co., 94,100 cu. yd. common excav., 1,464 ft. 18 and 24 in. concrete pipe, 110 cu. yd. concrete, 109,-700 sq yd. hard surfacing, $350,000; 12.89 mi. State Project 329, Columbus Co., 15,700 cu. yd. common excav., 136,100 sq. yd. concrete or asphaltic paving, $380,000; 8.57 mi. State Project 643, Iredell Co., 52,800

Streets and Roads (Continued)

cu. yd. common excav., 2,562 ft. 18 and 30 in. concrete pipe, 90,470 sq. yd. concrete or asphaltic paving, 378 cu. yd. concrete, 20,540 lb. reinforcing, $286,000; 22.1 mi. State Project 570, Moore Co., 47 acres clearing, 130,500 cu. yd. common excav., and borrow, 2,658 ft. 18-30 in. concrete pipe, 58,400 cu. yd. topsoil, 263 cu. yd. concrete, 6,240 lb. reinforcing, $77,900; 3.54 mi. State Project 723, Caldwell Co., 36,960 cu. yd. common and 34,100 cu. yd. rock excav., 2,528 ft. 18 and 24 in. concrete pipe, 407 cu. yd. rubble masonry, 35,930 sq. yd. waterbound or penetration macadam, $114,000; 4.4 mi. State Project 151 B, Hyde Co., 14,000 cu. yd. common excav., 25,700 sq. yd. concrete or asphaltic paving, $72,000; 2.92 mi. State Project 930 A, Graham Co., 3,700 cu. yd. common excav., 23,980 sq. yd. waterbound or penetration macadam, $34,000; 11.83 mi. State Project 115, Chowan and Perquimans Counties, 17 acres clearing, 73,700 cu. yd. common excav. and borrow, 5,000 cu. yd. drainage ditches, 1,706 ft. 18 and 24 in. concrete pipe, 79,300 sq. yd. concrete or asphaltic paving, 554 cu. yd. concrete, 36,580 lb. reinforcing, $268,000; 3.53 mi. State Project 713, Ashe Co., 25,000 cu. yd. common and 1,800 cu. yd. rock excav., 994 ft. 18-30 in. concrete pipe, 33,570 sq. yd. concrete or asphaltic paving, $103,000; 11.66 mi. State Project 944, Haywood Co., 59,400 cu. yd. common and 1,500 cu. yd. rock excav., 1,886 ft. 18-30 in. concrete pipe, 99 cu. yd. concrete, 123,190 sq. yd. concrete or asphaltic paving, $375,000; 9 mi. State Project 293, Wilson Co., 69,000 cu. yd. borrow, 8,000 cu. yd. drainage ditches, 1,468 ft. 18 and 24 in. concrete pipe, 98 cu. yd. concrete, 84,000 sq. yd. concrete or asphaltic paving, $268,000; 7.97 mi. State Project 578, Randolph Co., 44,100 cu. yd. common and 1,700 cu. yd. rock excav., 1,618 ft. 18-30 in. concrete pipe, 84,100 ft. concrete or asphaltic paving, 241 cu. yd. concrete, 17,070 lb. reinforcing, $262,000; 8.27 mi. State Project 961 A, extension Macon Co., 11,500 cu. yd. common excav., 55 cu. yd. concrete, 58,930 sq. yd. concrete or asphaltic paving, $87,000; 6.42 mi. State Project 146, Hertford and Bertie Counties, 15 acres clearing, 26,000 sq. yd. common excav., 1,500 cu. yd. drainage ditches, 950 ft. 18 and 24 in. concrete pipe, 15,100 cu. yd. topsoil, 538 cu. yd. concrete, 68,000 lb. reinforcing, 1,500 ft. untreated timber piles, $40,000; 10.74 mi. State Project 437, Harnett Co., 18 acres clearing, 80,800 cu. yd. common excav., 1,480 ft. 18-30 in. concrete pipe, 110 cu. yd. concrete, 28,230 cu. yd. topsoil, $60,000; 7.45 mi. State Project 457 A, Orange Co., 28 acres clearing, 65,000 cu. yd. common and 6,800 cu. yd. rock excav., 1,894 ft. 18-30 in. concrete pipe, 658 cu. yd. concrete, 57,190 lb. reinforcing, $59,000; 1.06 mi. State Project 392, Robeson Co., 39,200 cu. yd. common excav., 7,400 cu. yd. drainage ditches, 415,000 sta. yd. overhaul, 2,600 cu. yd. topsoil, $30,000; 7.81 mi. State Project 485 A, Wake Co., 50,200 cu. yd. common and 3,900 cu. yd. rock excav., 188 cu. yd. concrete, $42,000; 8. 59 mi. State Project 616, Cabarrus Co., 31 acres clearing, 57,300 cu. yd. common and 2,800 cu. yd. rock excav., 125 cu. yd. concrete, 22,500 cu. yd. topsoil, $47,000. C. M. Upham, state highway engr. Noted March 8.

N. C., Enfield—March 21, by Mayor and Bd. Comrs., 25,000 sq.yd. asphaltic paving on concrete, 17,500 ft. combined curb and gutter, 8,500 sq.yd. concrete sidewalks, 18,000 cu.yd. excav., 5,500 ft. vitr. pipe, etc. W. C. Olsen, Kinston, engr.

N. C., Greensboro—March 19, by City Council, 150,000 sq.yd. paving, concrete, sheet asphalt and bituminous concrete. P. C. Painter, city mgr.

N. C., Rowland—April 3, by Mayor, 5,383 sq.yd. street pavement, 1,515 lin.ft. curbing, 9,339 sq.yd. sidewalks, etc. Ryan Eng. Co., Arcade Bldg., Columbia, S. C., engrs. Noted March 8.

S. C., Fort Mill—March 22, 6,300 sq. yd. asphaltic concrete surfacing on 4 in. cement concrete. H. S. Jaudon Eng. Co., Elberton, Ga., engrs.

S. C., York—March 22, at office T. B. Spratt, 1st Trust Co., Fort Mill, constructing 2.28 mi. State Route 7, from Catawba River to northern limits of Fort Mill, 20,617 cu. yd. excav., 30,486 sq. yd. sheet asphalt or asphaltic concrete, 18,596 sq. yd. combination concrete header curbing and base course, 13,423 sq. yd. concrete base, 11,420 lin. ft., combination curb and gutter, for York Co.

Louisiana—March 27, by State Hy. Comn., Reymond Bldg., Baton Rouge, grading and gravel surfacing 6.58 mi. Federal Aid Project 129, St. Francisville-Baton Rouge Highway, West Feliciana Parish, 4,426 cu.yd. washed and screened gravel and 8,235 cu. yd. sand clay gravel, containing not less than 40 per cent stone retained on ¼ in. screen. J. Fourmy, ch. engr.

Kentucky—April 4, by State Hy. Dept., Frankfort, surfacing 3.9 mi. Lawrenceburg-Versailles Rd., State Project 20, Sect. C. Anderson Co., 8,150 tons crushed stone, 2,002 tons screenings, 110 lin.ft. 18 in. and 44 lin.ft. 24 in. corrugated metal pipe, 31 cu.yd. concrete, etc. J. S. Boggs, state highway engr. Noted March 1.

O., Cincinnati—March 23, by Hamilton Co., grading and paving 14,008 ft. Blue Ash Rd., 20 ft., 1,000 cu.yd. earth excav., 31,130 sq.yd. bituminous macadam, $44,951. E. A. Gast, Court House, co. surv.

O., Cleveland—March 21, by Cuyahoga Co., Court House, grading, curbing and paving Clague Rd., 3, vitr. brick, to exceed $25,000; Noble Rd. from Euclid Ave. to Mayfield Rd., vitr. brick, $150,000. F. R. Lander, Court House, engr.

O., Cleveland—March 22, stone and cement sidewalks in southerly, northerly and westerly sidewalk districts. $125,000. R. H. Hoffman, City Hall, engr.

O., Columbus—March 20, by W. H. Duffy, dir. Pub. Wks., Grant and State Sts., grading, curbing, laying necessary water services and sewer connections and paving 1,902 ft. Mt. Vernon Ave. from Cleveland to St. Clair Aves., 66 ft., brick $48,442, asphalt $48,442. R. H. Simpson, city engr.

Michigan—March 27, by State Hy. Dept., Lansing, grading and surfacing 4.009 mi. Federal Aid Project 118, Muskegon Co., 8,298 cu.yd. excav., 42,444 sq.yd. concrete. F. F. Rogers, state comr.

Michigan—March 28, by State Hy. Dept., Lansing, grading and surfacing 1.342 mi. State Trunk Line Rd. 11-32, Sect. B, Oceana Co., 8,024 cu.yd. excav., 14,064 sq. yd. concrete. F. F. Rogers, state comr.

Michigan—March 29, by State Hy. Dept., Lansing, grading and surfacing 4.853 mi. Federal Aid Project 76, Macomb Co., 9,506 cu.yd. excav., 51,214 sq.yd. concrete. F. F. Rogers, state comr.

Michigan—March 30, by State Hy. Dept., Lansing, grading and surfacing 3.489 mi. State Trunk Line Rd. 27-16, Sect. A, St. Clair Co., 11,542 cu.yd. excav., 40,988 sq yd. concrete. F. F. Rogers, state comr.

Mich., Kalamazoo—March 28, for 28,000 sq.yd. sheet asphalt paving top. H. A. Bland, purch. agt.

Wis., Jefferson—March 22, by Jefferson Co. State Road and Bridge Com., grading and surfacing 4.59 mi. Ixonia-Watertown Rd., State Trunk Highway 19, beginning at west end of present concrete pavement west of Ixonia and extending westerly to city of Watertown, 21,138 cu.yd. earth excav., 48,060 sq.yd. concrete surfacing, 54,326 lb. steel, etc., concrete bridge across Rock River at Watertown, near Tourist Park, five 50 ft. spans; 6.83 mi. Whitewater-Ft. Atkinson Rd., State Trunk Highway 12, beginning at Walworth Co. line and extending northwesterly into city of Ft. Atkinson, 26,555 cu.yd. earth excav., 78,161 sq.yd. concrete surfacing, 147,187 lb. steel, etc.; 10.11 mi. Ft. Atkinson-Cambridge Rd., State Trunk Highway 12, beginning in city of Ft. Atkinson and extending northwesterly to Jefferson Co. line, Sect. A, Sta. O to Sta. 238 plus OO, 19,573 cu.yd. earth excav., 48,154 sq.yd. concrete pavement, Sect. B, Sta. 238 to Sta. 535 plus 96.1, 28,560 cu.yd. earth excav., 59,654 sq. yd. concrete pavement. R. D. Royce, co. highway comr.

Wis., Prarie du Chien—March 27, by F. R. Honzel, city clk., paving North and South Church Sts., alternate bids on 16,300 sq.yd. one course rein.-con., asphaltic concrete on concrete, tarvia double seal on concrete or vibrolithic concrete, 6,700 cu. yd. earth excav., 8,200 lin.ft. cobination concrete curb and gutter, 450 ft. 12 in. vitr. pipe storm sewer, etc. Private plans.

Wis., West Allis—March 26, by W. Henika, city clk., 48,381 sq.yd. pavement, 11,012 cu.yd. grading on George St. from 60th to 79th Aves., Greenfield Ave. from 66th to 74th Aves., 74th and 70th Aves. from National to Greenfield Aves., 65th Ave. from National Ave. to Burnham St., 52nd Ave. from Mitchell to Burnham Sts., Greenfield Ave. from 51st to 53rd Aves. Alternate bids on concrete, vibrolithic concrete, sheet asphalt, (heavy and light binders) and creosoted blocks. W. Darby, City Hall, engr.

Ia., Clarion—March 19, by Auditor Wright Co., grading 6.942 mi. road from Eagle Grove south, 94,388 cu.yd. excav., 19,292 ft. 6 in. and 2,500 ft. 10 in. tile, etc. J. K. Hilton, Clarion, engr.

Ia., Clinton—March 27, curbing and paving 7 mi. Sect. A-23 to M-23, 26-64 ft., 88,000 sq.yd. paving, 67,000 lin.ft. combined curb and gutter, etc. Alternate bids on vertical fibre brick, asphalt and waterbound bituminous concrete. $400,000. B. R. Anderson, city engr. Noted Feb. 15.

Ia., Cresco—March 22, 9,800 sq.yd. paving 4,400 lin.ft. concrete curb and gutter, 3,000 cu.yd. grading, etc. Alternate bids on concrete, vibrolithic, rein.-con., sheet asphalt, asphaltic concrete and bitulithic. $33,000. J. H. Howe, city engr.

Ia., Des Moines—March 26, by Auditor Polk Co., grading and incidental work on 14.4 mi. Polk City-Sheldahl and Mitchellville-Farrar Rds., 126,681 cu.yd. excav., 7,100 ft. 6 in and 2,600 ft. 8 in. tile, etc. F. O. Laing, co. engr.

Kan., Holton—April 6, by Comrs. Jackson Co. earth road with bridges on 8.797 mi. Holton to Mayetta Rd., Federal Aid Project 149, A and B, 30 ft., 38,400 cu.yd. earth excav. $50,000. P. Wright, co. engr. Noted March 8.

Minn., Albert Lea—March 27, by C. Holway, aud. Freeborn Co., 5.5 mi. Job 23-23, State Rd. 23, 51,925 cu.yd. excav., 59,860 cu.yd. overhaul, install 1,331 lin.ft. portable culverts; 3 mi. Job 23-07, State Rd. 7, 27,000 cu.yd. excav., install 350 lin.ft. portable culverts; 1 mi. Job 22-07B, 12,800 cu.yd. excav., install 200 lin.ft. portable culverts. $25,000. C. W. Squires, Albert Lea, engr.

Minn., Hastings—April 2, by R. W. Downs, aud. Dakota Co., Job 2315, State Rd. 15, 39,409 cu. yd. earth and 240 cu. yd. loose rock excav., 33,152 cu. yd. overhaul, 2,240 lin. ft. 15-24 in. corrugated metal culverts, 9 monolithic culverts, and 8 end walls, incl. 260 cu. yd. concrete, 15,102 lb. steel; Job 2316, State Rd. 16, 54,177 cu. yd. excav., 181,813 cu. yd. overhaul, 842 ft. 15-30 in. corrugated metal culverts, 2 monolithic culverts and 8 end walls, incl. 67 cu. yd. concrete, 3,759 lb. steel; Job 2305, State Rd. 5, 48,476 cu. yd. excav., 20,488 cu. yd. overhaul, 2,650 lin. ft. 15 and 24 in. corrugated metal culverts, 3 monolithic culverts, 8 end walls, 83 cu. yd. concrete, 4,434 lb. steel. $33,000. J. Swan, Hastings, engr.

Minn., Luverne—April 2, by O. Skyberg, aud. Rock Co., gravel surfacing 10 mi. Job 2301 State Rds. 6 and 7, 15,000 cu. yd. $25,000. J. Brown, Luverne, engr.

Minn., Owatonna—March 28, by G. Griffin, aud. Steele Co., Job 2302, State Aid Rd. 73-104, 69,176 cu.yd. excav., 46,444 cu. yd. overhaul, install 308 lin.ft. corrugated metal culverts, 278 cu.yd. concrete culverts. $25,162. R. W. Hosfield, Owatonna, engr.

Washington—March 27, by State Hy. Comn., Olympia, concrete paving 4.7 mi. Pacific Highway from Castle Rock south, $170,000, 5.3 mi. Pacific Highway from Kelso north, Cowlitz Co., $180,000. J. Allen, Olympia, state highway engr. Noted March 8.

Washington—April 10, by State Hy. Comn., Olympia, concrete paving 4.7 mi. Pacific Highway from Castle Rock north, Cowlitz Co., $160,000, 5.5 mi. from Loughlins Mouth north, Lewis Co., $180,000, 4.8 mi. from Toledo south, $160,000. J. Allen, Olympia, state highway engr. Noted March 8.

Calif., San Rafael—March 26, by City Clerk, 279,000 sq.ft. asphaltic concrete surfacing, 90,000 sq.ft. asphalt macadam surfacing. To exceed $30,000. H. J. Brainerd, city engr.

Calif., Visalia—City receiving bids improving section bounded by South Court St., Bridge, East Mineral, King and East Tulare Aves., 58,120 sq.ft. 3½ in. concrete walks, 10,675 lin.ft. concrete curbs. L. H. Gadsby, city engr.

Quebec—March 27, by J. L. Boulanger, minister Dept. Pub. Wks., Quebec, 5,056 ft. Quebec-St. Simeon Highway, oil waterbound macadam; 29,790 ft. Levis-Rimouski Highway, 9,040 ft. concrete and 20,750 ft. oil waterbound macadam. M. Nectkar, ch. engr.

South Dakota—March 21, by State Hy. Comn. at office Auditor Charles Mix Co., Lake Andes, 7.86 mi. Federal Aid Project 111, Chamberlain-Lake Andes Rd., 86,960 cu.yd., excav., 170.5 cu.yd. concrete, 13,415 lb. reinforcing steel, also one 67 ft. concrete viaduct, 90.4 cu.yd. concrete, 12,272 lb. reinforcing steel, etc. F. D. Hudgins, ch. engr.

South Dakota—March 22, by State Hy. Comn., at office Auditor Bon Homme Co., Tyndall, 12.5 mi. Federal Aid Project 113, Yankton-Tripp Rd., 97,515 cu.yd. excav., 200 cu.yd. loose rock excav., 498.85 cu.yd. concrete, 1,965 lin.ft. concrete pipe, 47,163 lb. reinforcing steel, one 96 ft. concrete viaduct, 149.2 cu.yd. concrete, 14,550 lb. reinforcing steel, 46,996 lb. structural steel, etc. Bids opened same date at office Auditor Hutchinson Co., Olivet, 15.14 mi. Federal Aid Project 116, Yankton-Olivet Rd., 170,156 cu.yd. common excav., 275.9 cu.yd. concrete, 3,460 ft. concrete pipe, one 120 ft., one 432 ft., and one 203 ft. concrete viaducts, 947 cu.yd. concrete, 93,350 lb. reinforcing steel, 284,073 lb. structural steel, etc. F. D. Hudgins, ch. engr.

South Dakota—March 23, by State Hy. Comn. at office Auditor Moody Co., Flandreau, 9.04 mi. Federal Aid Project 120, State Trunk 15, incl. 86,590 cu.yd. excav., 358.85 cu.yd. concrete, 1,510 lin.ft. concrete pipe, 30,960 lb. reinforcing, one 60 ft. concrete viaduct, 76.1 cu.yd. concrete, 8,670

STREET IMPROVEMENT—LAREDO, TEX.

Following are lowest and highest bids opened by City Council, Jan. 23, for paving various streets. The contract has been awarded to Southwest Bitulithic Co., Gunter Bldg., San Antonio, at $387,167.

	Vitrified Brick		Two Course Concrete		Sheet Asphalt, 2½ in.		Bitulithic 2 In.	Rock Asphalt
27,000 cu.yd. earth excavation	$0.25	$0.90	$0.80	$0.90	$0.25	$0.85	$0.50	$0.50
62,082 ft. concrete curbs	.42	.78	.70	.70	.42	.65	.65	.63
120,062 sq.yd. 6-in. concrete foundation	1.14	1.58			1.14	1.36	1.25	1.02
120,062 sq.yd. pavement	1.96	2.36	2.58	2.79	.....	.....	.....	.....
2,576 ft. concrete headers	.55	.49	.90	.65	.55	.65	.75	.75
186 adjusting st. structures	2.00	5.00	5.00	5.00	2.00	2.95	5.00	2.00
238 catch basins	50.00	35.00	70.00	54.00	50.00	56.50	45.00	45.00
3,192 ft. curb protecting steel	.25	.35	.30	.25	.25	.30	.25	.30
100 ft. 12-in. vitrified pipe	1.35	1.10	1.40	.75	1.35	2.40	2.25	1.50
10 12-in. vitrified elbows	3.00	3.15	3.50	4.00	3.00	2.75	4.00	3.00
15 12-in. vitrified ⅛ bends	3.00	3.15	3.50	4.00	3.00	2.65	4.00	3.00
2,025 ft. excavating and concrete on 8-ft. ry. strip	2.50	4.00	5.00	6.00	2.50	4.01	4.35	3.55
6,000 sq.ft. concrete walks and drives	.22	.25	.30	.27	.22	.23	.25	.28
105,724 sq.yd. surfacing	.....	.....	.....	.....	1.40	1.60	1.60	1.58
7,083 sq.yd. vitrified brick gutters	.....	.....	.....	.....	2.06	2.76	2.50	2.40
7,083 sq.yd. concrete gutters	.....	.....	.....	.....	1.70	1.15	1.00	1.00
Extended totals	$426,096	$567,196	$409,336	$434,180	$350,829	$430,327	$387,166	$372,267

Streets and Roads (Continued)

lb. reinforcing steel, 32,750 lb. structural steel, etc.; gravel surfacing 7.83 mi. Federal Aid Project 128, Madison-Pipestone Rd., 11,744 cu.yd. gravel. Bids opened on same date at office Auditor Brookings Co., Brookings, 15.92 mi. Federal Aid Project 89, Brookings-Elkton Rd., 137,111 cu.yd. excav., 471.62 cu.yd. concrete, 2,115 lin.ft. concrete pipe, 44,751 lb. reinforcing, one 90 ft. and one 45 ft. concrete viaducts, 164.9 cu.yd. concrete, 19,775 lb. reinforcing, 48,330 lb. structural steel. F. D. Hudgins, ch. engr.

South Dakota—March 24, by State Hy. Comn. at office Auditor Beadle Co., Huron, 14.15 mi. Federal Aid Project 91, Wessington-Wolsey Rd., 143,500 cu.yd. excav., 2,110 lin.ft. concrete pipe, 150.2 cu.yd. concrete, 13,133 lb. reinforcing steel, two 50 ft. pony trusses, one 84 ft. and one 78 ft. concrete viaducts, 484.79 cu.yd. concrete, 89,335 lb. structural steel, 53,659 lb. reinforcing, also 8.9 mi. Federal Aid Project 121, Huron-De Smet Rd., 111,399 cu.yd. excav., 1,280 lin.ft. concrete pipe, 349.2 cu.yd. concrete, 34,720 lb. reinforcing steel, one 60 ft. and one 40 ft. concrete viaducts, 143.56 cu.yd. excav., 15,560 lb. reinforcing, 62,213 lb. structural steel. F. D. Hudgins, ch. engr.

South Dakota—March 27, by State Hy. Comn., Todd Co., Pierre, 5.65 mi. Federal Aid Project 107, Winner-Martin Rd., 75,561 cu.yd. excav., 968 ft. 18 in. corrugated metal pipe, 50 lin.ft. 24 in. corrugated metal pipe, 444.9 cu.yd. concrete, 42,449 lb. reinforcing steel. F. D. Hudgins, ch. engr.

South Dakota—March 27, by State Hy. Dept., Pierre, 8.95 mi. Federal Aid Project 110, Gettysburg-Faulkton Rd., 66,497 cu. yd. excav., 1,415 lin.ft. concrete pipe, 275.5 cu.yd. concrete, one 32 ft. I beam bridge, 76.3 cu.yd. concrete, 4,534 lb. reinforcing, 13,092 lb. structural steel; one 90 ft. and one 72 ft. concrete viaducts on Federal Aid Project 118 A, Kennebec-Winner Rd., 313.48 cu.yd. concrete, 29,885 lb. reinforcing, 95,431 lb. structural steel; 9.478 mi. Federal Aid Project 95 A, Faulkton-Redfield Rd., 87,095 cu.yd. excav., 1,142 lin.ft. concrete pipe, 308.68 cu.yd. concrete, 26,986 lb. reinforcing; 10.04 mi. Federal Aid Project 95 B, Faulkton-Redfield Rd., 92,000 cu. yd. excav., 1,967 lin.ft. concrete pipe, 191.96 cu.yd. concrete, 12,100 lb. reinforcing; 6.85 mi. Federal Aid Project 117, Philip-Midland Rd, 105,283 cu.yd. excav., 1,005 lin. ft. concrete pipe, 163.1 cu.yd. concrete, 13,646 lb. reinforcing steel, one 48 ft., one 60 ft., one 52 ft. concrete viaducts, 247 cu.yd. concrete, 24,810 lb. reinforcing, 98,398 lb. structural steel. F. D. Hudgins, ch. engr.

South Dakota—April 4, by State Hy. Comn. at office Auditor Codington Co., Watertown, 6.11 mi. Federal Aid Project 124, Watertown-Hayti Rd., 52,776 cu.yd. excav., 905 lin.ft. concrete pipe, 115.04 cu.yd. concrete, 8,838 lb. reinforcing, one 90 ft. concrete viaduct, 171.6 cu.yd. concrete, 34,550 lb. reinforcing, also 9.94 mi. Federal Aid Project 122, Watertown-Clear Lake Rd., 105,129 cu.yd. excav., 1,755 lin.ft. concrete pipe, 276.36 cu.yd. concrete, 24,027 lb. reinforcing. F. D. Hudgins, ch. engr.

South Dakota—April 5, by State Hy. Comn., at office Auditor Grant Co., Milbank, 10.89 mi. Federal Aid Project 119, Webster-Milbank Rd., 99,924 cu.yd. excav., 1,390 lin.ft. concrete pipe, 257.18 cu.yd. concrete, 24,053 lb. reinforcing, one 72 ft. concrete viaduct, 88.02 cu.yd. concrete, 9,882 lb. reinforcing, 38,101 lb. structural steel, also 10.47 mi. Federal Aid Project 92 A, Webster-Milbank Rd., 123,185 cu.yd. excav., 1,962 lin.ft. concrete pipe, 101.61 cu.yd. concrete, 5,851 lb. reinforcing. F. D. Hudgins, ch. engr.

South Dakota—April 6, by State Hy. Comn., at office Auditor Roberts Co., Sisseton, 6.81 mi. Federal Aid Project 139, Sisseton-Watertown Rd., 67,000 cu.yd. excav., 444 cu.yd. concrete, 43,523 lb. reinforcing, 1,152 lin.ft. concrete pipe, one 34 ft. concrete viaduct, 60.9 cu.yd. concrete, 8,500 lb. reinforcing. F. D. Hudgins, ch. engr.

South Dakota—April 7, by State Hy. Comn., at office Auditor Walworth Co., Mobridge, 6.19 mi. Federal Aid Project 20 B, Mobridge-Selby Rd., 79,493 cu.yd. excav., 925 lin.ft. concrete pipe, 218.68 cu.yd. concrete, 27,200 lb. reinforcing; 8.15 mi. Federal Aid Project 101, Mound City-Leola Rd., 66,930 cu.yd. excav., 1,356 lin.ft. concrete pipe, 130.59 cu.yd. concrete, 9,324 lb. reinforcing; 8.95 mi. Federal Aid Project 131, Mound City-Leola Rd., 72,950 cu.yd. excav., 1,460 lin.ft. concrete pipe, 103 cu. yd. concrete, 5,570 lb. reinforcing; 9.74 mi. Federal Aid Project 132, Mound City-Leola Rd., 79,640 cu.yd. excav., 1,595 lin.ft. concrete pipe, 4,560 lb. reinforcing. F. D. Hudgins, ch. engr.

S. D., Aberdeen—March 26 at office City Auditor, paving various streets. $300,000. F. LeCocq, city engr.

Missouri—March 24, by State Hy. Dept., Jefferson City, 0.489 mi. road from Albany to Stanberry, 24 ft., State Project Route 4A, Sect. 2, Gentry Co., 13,660 cu.yd. earth excav., etc.; 5 mi. road north of Cabool, 16 ft., State Project Route 7, Sect. 86, Texas Co., 12,157 cu.yd. surfacing; 5 mi. road south of Bloomfield, 34 ft., State Project Route 15, Sect. 49, Callaway Co., 41,000 cu.yd. earth excav., etc.; 4.7 mi. road from Lafayette Co. line east, 34 ft., State Project Route 2, Sect. 22, Saline Co., 36,810 cu.yd. earth excav.; 5 mi. road from Lafayette Co. line east, 34 ft., State Project Route 2, Sect. 21, Saline Co., 37,900 cu.yd. earth and 4,600 cu.yd. rock excav.; 5 mi. road from Lafayette Co. line east, 34 ft., State Project Route 2, Sect. 20, Saline Co., 91,390 cu.yd. earth and 3,000 cu.yd. rock excav.; 4.7 mi. road from Lafayette Co. line east, 34 ft., State Project Route 2, Sect. 19, Saline Co., 50,470 cu.yd. earth excav.; 5 mi. road from Lafayette Co. line east, 34 ft., State Project Route 2, Sect. 18, Saline Co., 66,303 cu.yd. earth excav.; 0.488 mi. road north and south of Princeton, 30 ft., State Project Route 3, Sect. 5, Mercer Co., 7,986 cu.yd. earth excav.; 2.267 mi. road west of Maryville, 30 ft., State Project Route 18, Sect. 11, Nodaway Co., 17,589 cu.yd. earth excav.; 2.727 mi. road west of Maryville, 30 ft., State Project Route 18, Sect. 6, Nodaway Co., 29,969 cu.yd. earth excav.; 0.36 mi. road west of Lamar, 24 ft., State Project Route 36, Sect. 6, Barton Co., 11,792 cu.yd. earth excav.; 2.55 mi. road west of Savannah, 30 ft., State Project Route 1, Sect. 22, Andrew Co., 46,832 cu.yd. earth and 276 cu.yd. rock excav.; 4.982 mi. road west of Savannah, 30 ft., State Project Route 1, Sect. 23, Andrew Co., 77,130 cu.yd. earth and 1,543 cu.yd. rock excav.; 2.5 mi. road south of Dexter, 16 ft., State Project Route 25, Sect. 50, Stoddard Co., 10,182 cu.yd. earth excav.; 5 mi. road west of Jackson, 34 ft., State Project Route 9, Sect. 112, Cape Girardeau Co., 63,210 cu.yd. earth excav.; 5 mi. road west of Jackson, 34 ft., State Project Route 9, Sect. 111, Cape Girardeau Co., 78,702 cu.yd. earth excav.; 3.655 mi. road from Fredericktown to Jackson, 34 ft., State Project Route 9, Sect. 103, Bollinger Co., 34,224 cu.yd. earth excav.; 4.955 mi. road from Fredericktown to Jackson, 34 ft., State Project Route 9, Sect. 102, Bollinger Co., 50,367 cu.yd. earth excav.; 4.559 mi. road from Fredericktown to Jackson, 34 ft., State Project Route 9, Sect. 101, Bollinger Co., 87,011 cu.yd. earth and 10,461 cu.yd. rock excav.; 4.89 mi. road from Fredericktown to Jackson, 34 ft., State Project Route 9, Sect. 100, Bollinger Co., 30,938 cu.yd. earth and 3,054 cu.yd. rock excav.; 2.695 mi. road from Lineville to Mercer, 30 ft., State Project Route 3, Sect. 2, Mercer Co., 19,625 cu.yd. earth excav.; 5 mi. road from Jefferson City to Fulton, 34 ft., State Project Route 15, Sect. 48, Callaway Co., 43,470 cu.yd. earth excav.; 0.848 mi. road from Stanberry to Albany, 24 ft., State Project Route 4, Sect. 18 A, Gentry Co., 27,029 cu.yd. earth excav.; 2.476 mi. road from Linesville to Mercer, 30 ft., State Project Route 3, Sect. 1, Mercer Co., 13,053 cu.yd. earth excav.; 4.82 mi. road west of Union, 16 ft., State Project Route 12, Sect. 52, Franklin Co., 7,935 cu.yd. earth and 500 cu.yd. rock excav.; 3.551 mi. road west of Springfield, 34 ft., State Project Route 14, Sect. 11, Greene Co., 33,932 cu.yd. earth and 4,395 cu.yd. rock excav.; 1.628 mi. road from West Plains to Thayer, 12 ft., State Project Route 7, Sect. 102, Oregon Co., 2,525 cu.yd. gravel surfacing; 4.261 mi. road from Houston to Salem, 12 ft., State Project Route 32, Sect. 5, Dent Co., 7,973 cu.yd. gravel surfacing; 5 mi. road from Houston to Cabool, 18 ft., State Project Route 7, Sect. 85, Texas Co., 11,977 cu.yd. surfacing; 4.856 mi. road west of Salem, 12 ft., State Project Route 36, Sect. 6, Dent Co., 9,002 cu.yd. gravel surfacing; 2,954 mi. road west of Springfield, 34 ft., State Project Route 14, Sect. 13, Greene Co., 22,999 cu. yd. earth and 6,780 cu.yd. rock excav.; 4.997 mi. road west of Rolla, 34 ft., State Project Route 14, Sect. 49, Phelps Co., 48,438 cu.yd. earth excav.; 2.338 mi. road northeast of Lebanon, 34 ft., State Project Route 14, Sect. 38 A, Laclede Co., 20,161 cu.yd. earth and 4,856 cu.yd. rock excav.; 4.761 mi. road northeast of Lebanon, 34 ft., State Project Route 14, Sect. 37, Laclede Co., 53,408 cu.yd. earth and 9,241 cu.yd. rock excav.; 4.037 mi. road west of Springfield, 34 ft., State Project Route 14, Sect. 12, Greene Co., 48,397 cu.yd. earth and 12,371 cu.yd. rock excav.; 0.636 mi. road south of Springfield, 34 ft., State Project Route 3, Sect. 97, Greene Co., 28,160 cu.yd. earth excav.; 1.398 mi. road south of Springfield, 18 ft., State Project Route 3, Sect. 94, Greene Co., 7,397 cu.yd. earth excav.; 1.526 mi. road from Appleton City to Butler, 16 ft., State Project Route 24, Sect. 13, St. Clair Co., 12,975 cu.yd. earth and 342 cu.yd. rock excav.; 3.846 mi. road north of Potosi, 30 ft., State Project Route 21, Sect. 4, Washington Co., 32,704 cu.yd. earth and 5,706 cu.yd. rock excav.; 3.1 mi. road north of Festus, 34 ft., State Project Route 9, Sect. 73, Jefferson Co., 35,183 cu.yd. earth and 7,598 cu.yd. rock excav.; 4.7 mi. road north of Festus, 34 ft., State Project Route 9, Sect. 72, Jefferson Co., 81,904 cu.yd. earth and 1,547 cu.yd. rock excav.; 4.6 mi. road north of Festus, 34 ft., State Project Route 9, Sect. 71, Jefferson Co., 86,124 cu.yd. earth excav.; 1.827 mi. road from Jefferson City to Columbia, 34 ft., State Project Route 7, Sect. 43, Callaway Co., 36,673 cu.yd. earth excav.; 3.159 mi. road north of Kansas City to Liberty, 18 ft., State Project Route 10, Sect. 1, Clay Co., 10,550 cu.yd. earth and 341 cu.yd. rock excav.; 4.561 mi. road south of Carrollton, 30 ft., State Project Route 3, Sect. 35, Carroll Co., 109,771 cu. yd. earth excav.; 4.115 mi. road south of Lancaster, 34 ft., State Project Route 7, Sect. 6, Schuyler Co., 26,782 cu.yd. earth excav.; 3.38 mi. road from Oregon to Savannah, 30 ft., State Project Route 1, Sect. 129, Holt Co., 73,753 cu.yd. earth and 3,600 cu.yd. rock excav.; 4.942 mi. road southwest of Waynesville, 34 ft., State Project Route 14, Sect. 41, Pulaski Co., 42,786 cu.yd. earth excav.; 2.032 mi. road northwest of Waynesville, 34 ft., State Project Route 14, Sect. 44, Pulaski Co., 39,217 cu.yd. earth and 11,792 cu.yd. rock excav.; 3.161 mi. road west of Rolla, 34 ft., State Project Route 14, Sect. 48, Phelps Co., 47,652 cu.yd. earth and 61,836 cu.yd. rock excav.; 4.022 mi. road from St. Louis to Springfield, 34 ft., State Project Route 14, Sect. 46, Pulaski Co., 77,404 cu.yd. earth and 8,945 cu.yd. rock excav.; 3.284 mi. road west of Rolla, 34 ft., State Project Route 14, Sect. 47, Phelps Co., 23,944 cu.yd. earth excav.; 2.923 mi. road west of Dexter, 18 ft., State Project Route 16, Sect. 83, Stoddard Co., 42,402 cu.yd. earth excav.; 1.155 mi. road west of Moberly, 18 ft., State Project Route 19, Sect. 36, Randolph Co., 4,579 cu.yd. earth

Streets and Roads (Continued)

excav.; 4.95 mi. road from Fredericktown to Ironton, 34 ft., State Project Route 9, Sect. 99, Madison Co., 45,528 cu.yd. earth and 11,338 cu.yd. rock excav.; 4.996 mi. road from Fredericktown to Jackson, 34 ft., State Project Route 9, Sect. 97, Madison Co., 61,314 cu.yd. earth excav.; 4.058 mi. road from Portageville to Arkansas State line, 18 ft., State Project Route 9, Sect. 142, Pemiscot Co., 41,152 cu.yd. earth excav.; 4.167 mi. road from Portageville to Arkansas State line, 18 ft., State Project Route 9, Sect. 141, Pemiscot Co., 30,310 cu. yd. earth excav.; 2.4 mi. road from Phelps to Halltown, 34 ft., State Project Route 14, Sect. 10, Lawrence Co., 25,629 cu.yd. earth and 6,737 cu.yd. rock excav.; 3.158 mi. road south of Neosho, 30 ft., State Project Route 1, Sect. 108, McDonald Co., 39,433 cu.yd. earth and 1,125 cu.yd. rock excav.; 4.8 mi. road west of Springfield, 34 ft., State Project Route 14, Sect. 9, Lawrence Co., 62,932 cu.yd. earth and 4,069 cu.yd. rock excav. B. H. Piepmeier, state highway engr.

BIDS RECEIVED

Md., Baltimore — Paving Comn. opened bids Contr. 231-OANA, from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $86,692; Amer. Paving Co., Montebello Ave., $90,924; P. Flanigan & Sons, Harford Rd. and Baltimore and Ohio R.R., $93,749. Noted March 1.

Virginia—State Hy. Dept., Richmond, constructing (1) 2.9 mi. road between Tasley and Onancock, Project 268 A and B (2) 7.26 mi. road, Project F 246 A and B (3) 6 mi. concrete road from Tasley 6 mi. west (4) 77 ft. concrete bridge, 22 ft. wide, over Spottsylvania Power Co. canal, Project 225 B (5) concrete bridge over Marland Creek, Project F 192 C (6) bridge over Sandy River at Danville, Project F 186 B, from Harrison Eng. & Constr. Co., Ellicott Sq., Buffalo, N. Y., (1) $103,221 (3) $216,767; Royer & Ferguson, High Point, N. C., (1) $105,404 (3) $207,938; Robertson Bonsier & Co., Norfolk, (street address not available) (1) $105,412; Allport Constr. Co., Mutual Bldg., Richmond, (2) $273,568 (6) $11,369; J. A. Addenback & Son, Norfolk, (street address not available) (2) $287,304; R. G. Lassiter & Co., Arcade Bldg., Norfolk (2) $292,804; H. Roberts, Clara, Md., (3) $198,812; Major Engr. Co., Front Royal (4) $5,337; A. C. Bailey, 210 9th St., Phillipsburg, Pa., (4) $6,327; L. R. Boyd, Chester (4) $6,374; H. A. Donald, Lexington (5) $3,014; Ellis, Brooks Co., Lynchburg (street address not available) (5) 3,058; Pace Constr. Co., Box 744, Roanoke, (5) $3,504; Roanoke Iron Works, Roanoke, (6) $9,426; Atlantic Bridge Co., Roanoke, (6) $1,703. Noted Jan. 25.

O., Cincinnati—Hamilton Co. opened bids March 9, grading and paving (1) 8,980 ft. Van Zandt Rd., 16 ft., 16,000 sq.yd. bituminous macadam, engrs. est. $25,595 (2) 4,230 ft. Oak Rd., 16 ft., 7,525 sq.yd. bituminous macadam, engrs. est. $15,128 (3) 8,530 ft. Baughman Rd., 16 ft., 15,200 sq.yd. bituminous macadam, engrs. est. $23,272, from J. Rubel Constr. Co., 1872 Hanfield St., (1) $20,327 (2) $14,769; W. P. Flynn, 1252 Chase St., (1) $21,507 (3) $21,342; Brenson & Van Horn, 2381 Kemper Lane, (1) $21,597 (2) $12,474; J. L. Radabaugh, Montgomery, (2) $14,709; Nugent & Scull, R.R. 3, Harrison, (3) $19,598; E. Hines & Son, Harrison, (3) $20,359.

O., Cleveland—Grading, curbing and paving (1) East 117th St. (2) East 145th St. (3) West 48th St. (1 to 3 inclusive) involve 12,620 lin.ft. stone curb and 4 in. tile drain gutter, 8,900 cu.yd. earth excav., 20,710 sq.yd. (a) vitr. brick or (b) asphalt on concrete (4) West 49th St. (5) West 48th St. (6) Marvin Ave. (7) Tampa Ave. (8) West 73rd St. (9) West 115th St. (4 to 9 inclusive) involve 25,340 lin.ft. stone curb and 4 in. tile drain gutter, 12,000 cu. yd. earth excav., 20,926 sq.yd. (a) vitr. brick or (b) asphalt on concrete, from A. M. Pejsa, Euclid Heights Blvd., (1a) $24,961 (1b) $20,764; Baldwin Bros., 4500 Euclid Ave., (1a) $25,623 (1b) $20,963 (2a) $40,685 (2b) $34,547 (6a) $8,258 (8b) $7,960; Cleveland Trinidad Paving Co., The Arcade, (2b) $37,063; W. E. McHugh, Pavers Exch., Society for Savings Bldg., (3b) $38,051 (4b) $35,688 (5b) $38,051 (7b) $23,600; Roehl Bros., West 25th St. and Clark Ave., (3a) $45,050 (4a) $42,135 (5a) $45,050 (6b) $7,695 (7b) $23,638; Freshwater Constr. Co., Natl. Bldg., (8a) $9,358 (9a) $11,344; Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, (9b) $9,422. Noted Jan. 25.

O., Cleveland — Opened bids Feb. 28, grading, curbing and paving. (1) West 71st St. (2) East 118th St. (3) West 33rd St. (4) East 117th St. (5) West 116th St. (1 to 5 inclusive involve) 7,430 lin.ft. stone curb and 4 in. tile drain gutter, 8,500 cu. yd. earth excav., 6,515 sq.yd. asphalt, 10,896 sq.yd. vitr. brick on concrete (6) Scoville Ave. from East 26th to East 55th Sts., 4,062 cu.yd. earth excav., 14,265 sq. yd. granite block and asphalt, 13,116 sq. yd. concrete base, from Freshwater Constr. Co., Natl. Bldg., (1) $11,371 (5) brick $15,550; Baldwin Bros., 4500 Euclid Ave., (1) $11,509 (3) $8,363 (4) asphalt $20,963, brick $25,623; A. M. Pejsa, Euclid Heights Blvd., (2) $4,643 (4) aspnalt $20,764, brick $24,963; Rieley Bros., The Arcade, (2) $4,768; Roehl Bros., West 25th St. and Clark Ave., (3) $6,938; Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, (5) asphalt $13,112; Bentley Bros., 1836 Euclid Ave., (6) asphalt $87,435, granite $128,386; Cleveland Trinidad Paving Co., The Arcade, (6) asphalt $88,202, granite $131,712. Noted Feb. 22.

Wis., Appleton—Outagamie Co. opened bids (1) Clintonville-New London Rd., (a) 7,946 cu.yd. earth excav. (b) 8,315 sq.yd. concrete surfacing, etc. (2) Appleton-Seymour Rd. (a) 13,332 cu.yd. earth excav. (b) 12,866 sq.yd. concrete surfacing, etc., from Hoffman Constr. Co., 1087 Oneida St., Appleton, (1a) $0.90, (1b) $1.58, etc., total $32,007, (2a) $0.84, (2b) $2.55, etc., total $47,127; Will Tate, Bear Creek, (1a) $0.85 (1b) $2.60, etc., total $30,690; Wilson Johnson Concrete Co., Appleton (1a) $1 (1b) $2.05, etc., total $35,431; Simpsen Parker, Appleton, (2a) $0.80 (2b) $1.47, etc. total $47,416; P. Wunderlick, Appleton, (2a) $0.65 (2b) $2.49, etc., total $47,058.

Wis., Green Bay—Brown Co. State Road and Bridge Com. opened bids Feb. 27, Blake Rd., (a) 40,771 cu.yd. earth excav. (b) 3,500 cu.yd. solid rock (c) 97,195 sq. yd. concrete surfacing, etc., from Brogan & Schaefer, Green Bay, (a) $0.78 (b) $3 (c) $1.43, etc., total $208,068; Universal Eng. Co., Ingram Blk., Eau Claire, (a) $0.78 (b) $2.75 (c) $1.51, etc. total $215,106; Henkel Constr. Co., Mason City, Ia., (a) $0.85 (b) $2.75 (c) $1.55, etc., total $217,414. Noted Feb. 15.

Wis., Jefferson—Jefferson Co. State Road and Bridge Com., surfacing, etc., from Campbell Constr. Co., 3050 Hennepin Ave., Minneapolis, Minn., Portland-Waterloo Rd., Sect. A, 3,723 cu.yd. earth excav. $0.80, 11,882 sq.yd. concrete surfacing exclusive of cement and joints $1.52, etc., total $23,684, Madison St. Village of Waterloo, Sect. B, 3,410 cu.yd. earth excav. $0.80, 13,110 sq.yd. concrete pavement $1.47, etc., Waterloo-Marshall Rd., Village of Waterloo, Sect. C, 7,136 cu.yd. earth excav. $0.80, 9,369 sq.yd. concrete surfacing exclusive of cement and joints $1.52, total $22,370; from O'Dea & Shafer, 824 East Washington St., Madison, Milwaukee and Watertown Sts., Village of Jolson Creek, 2,144 cu.yd. earth excav. $0.79, 7,803 sq.yd. reinforced. pavement $1.62, etc., total $18,165; from L. C. Christianson, Cambridge, Madison St. in Lake Mills, 6,407 cu.yd. earth excav. $0.77, 16,341 sq.yd. concrete surfacing exclusive of cement and joints $1.29, etc., total $32,810. Noted Feb. 15.

Wis., Wausau—Paving 10,600 sq.yd. various streets, from C. Lotz, 1016 Grand Ave., vibrolithic concrete $2.28 per yd., brick $4.

Tex., Dallas—Paving 25,000 sq.yd. Pacific Ave. from Lamar St. to Central Ave., 50 ft., (a) 3 in. vertical fibre brick (b) 2 in. Uvalde rock asphalt (c) bitulithic (d) asphaltic concrete (e) sheet asphalt, all on 7 in. concrete, from Smith Bros. Constr. Co., Sumpter Bldg., (a) $104,737 (d) $106,981; Central Bitulithic Co., Praetorian Bldg., (a) $110,828 (c) $106,838; Fuller Constr. Co., Southwestern Life Bldg., (a) $118,845 (b) $109,618 (d) $104,879 (e) $107,373; Valient-Toomey, 8th St., Ft. Worth, (a) $118,289; Uvalde Paving Co., Insurance Bldg., (b) $108,275. Noted March 1.

Texas, Kaufman—Kaufman Co. grading and gravel surfacing 10.74 mi. Highway 40 from Big Bushy Creek to Dallas Co. line, 16 ft., from F. P. McElwrath, Corsicana, $87,490; Smith & Pursifull, Kaufman, $89,912; Scarborough & Davis, Gaston Bldg., Dallas, $90,082. Noted Feb. 1.

Tex., Seguin—Guadalupe Co. grading and gravel surfacing 9.5 mi. State Highway 3 between here and Gonzalez Co. line, 18 ft. 77,665 cu. yd. roadway and 15,986 cu. yd. borrow, 761.8 cu. yd. concrete, 28,986 cu. yd. gravel, etc., from Tibbetts Constr. Co., 209½ 8th St., Ft. Worth, $58,640; McClung Constr. Co., Cleburne, $62,559; J. W. Goodrun, Seguin, $62,757. Engrs. ets. $75,000.

Colorado — State Hy. Dept., Denver, opened bids gravel surfacing and bridging 0.454 mi. road located at Six Mile Creek, about 2 mi. west of Avondale, Federal Aid Project 231, Pueblo Co., from A. O. McCormick & Voss, 552 South Penn Ave., Denver, $23,088, Rogers & Pickard, 1735 Stout St., Denver, $25,968, P. C. Croll, 612 Jackson St., Pueblo, $26,478; gravel surfacing 6.86 mi. road beginning at Lamar and extending west via Santa Fe Trail, Federal Aid Project 168 B, Prowers Co., from Standard Eng. Co 518 E & C Bldg., Denver, $41,984, H. C. Lallier Eng. & Constr. Co., Hudson, $45,003, W. A. Colt & Son, Las Animas, $46,896; 1.957 mi. road extending westerly to Ft. Logan from Petersburg, State Project 791, Arapahoe Co., cement concrete, from W. F. Pigg & Son, 301 Engineers Bldg., Denver, $51,678, A. J. Collins, 2363 Blake St., Denver, $54,358, Brodie & Anderson, 609 Interstate Trust Bldg., Denver, $55,402, Topeka specifications bituminous pavement, from Western Paving Co., 601 First Natl. Bank Bldg., Denver, $62,795, R. M. Larson, 1309 Kalamath St., Denver, $63,794, E. L. Don, Pueblo, $64,447.

Calif., Auburn—Improving portions High, El Dorado Sts., etc., 82,000 sq.ft. grading, 82,000 sq.ft. 5 in. concrete pavement, 3,400 lin.ft. curb and gutter, 870 lin.ft. concrete open ditch, 360 ft. terra cotta 12 in. drains, from Skeels & Hudson, 1720 Oxford St., Berkeley, $19,017; M. C. Hillard, Sacramento, (street address not available), $20,202; General Constr. Co., Sharon Bldg., San Francisco, $21,175. Noted Feb. 15.

Calif., Los Angeles—Improving Alexandria Ave. between Beverly Blvd. and 1st St., from G. H. Oswald, 366 East 58th St., 94,725 sq.ft. grading $0.05, 50,798 sq. ft asphaltic pavement $0.30, 12,027 sq.ft. 5 in. concrete pavement $0.235, 13,070 sq. ft. 6 in. concrete pavement $0.25, 18,831 sq.ft. warranite bitulithic $0.27, 2,302 ft. curb $0.75, 10,030 sq.ft. walks $0.22; Hillhurst St. between Los Feliz and Hollywood Blvd., from W. Liddington, 420 East 60th St., 296,270 sq.ft. 6 in. concrete pavement $0.226, 1,282 sq.ft. oiling $0.06, 4,169 ft. curb $0.65, 2,976 sq.ft. walks $0.198, 256 sq.ft. gutter $0.25; Wilcox Ave. between Santa Monica Blvd. and Willoughby Ave., from W. Liddington, 420 East 60th St., 53,606 sq.ft. grading $0.03, 53,606 sq.ft. 5 in. concrete pavement $0.2075, 2,242 ft. curb $0.60, 3,142 sq.ft. walks $0.195; Alexandria Ave. between 3rd St. and Wilshire Blvd., from G. R. Curtis, 2440 East 26th St., 117,459 sq.ft. warrenite bitulithic $0.26, 274 ft. curb $0.75, 1,166 sq.ft. walks $0.25, 5,091 sq.ft. gutter $0.28.

Calif., Oakland — Improving 89th Ave. between B and E Sts., D St. between 87th and 92 Aves., (a) 74,315 sq.ft. grading (b) 4,231 ft. concrete curb (c) 8,316 ft. concrete gutter (d) 65,644 sq.ft. asphaltic macadam (2) Walnut Ave. between 55th and Seminary Aves., (e) 76,801 sq.ft. grading (f) 2,372 ft. concrete curb (g) 5,120 ft. concrete gutter (h) 35,628 ft. oil macadam pavement (i) 15,360 ft. sidewalks, from Heafey, Moore & McNair, 2030 High St., (1a) $0.065 (1b) $0.75 (1c) $0.26 (1d) $0.12; S. Deguarda, Oakland, (street address not available) (1a) $0.05 (1b) $0.65 (1c) $0.26 (1d) $0.12; Bates & Borland, Bank of Savings Bldg., (1a) $0.06 (1b) $0.75 (1c) $0.26 (1d) $0.12 (2e) $0.055 (2f) $0.75 (2g) $0.25 (2h) $0.115 (2i) $0.17; Hutchinson Co., 1706 Bway., (2e) $0.06 (2f) $0.78 (2g) $0.26 (2h) $0.12 (2i) $0.175; Oakland Paving Co., 5000 Bway., (2e) $0.059 (2f) $0.75 (2g) $0.25 (2h) $0.12 (2i) $0.18.

Calif., Oroville—Butte Co. grading and gravel surfacing Chico-Butte City Rd., Route 11, Sect. D, from Collins & Seppi, Stockton (street address not available), $39,857, D. Bayles, Biggs, $40,570; Honcut-Palermo Rd., (material to be furnished by county, $21,691) from Heafey, Moore & McNair, 2030 High St., Oakland, $52,218, Christensen Constr. Co., Palo Alto, $61,537. Noted Feb. 22.

Calif., Redwood City—San Mateo Co., improving Pescadero-Santa Cruz Rd., from W. W. Thompson, Redwood City, $39,149; A. J. Grier, 480 Chetwood St., Oakland, $43,538; W. J. Wilkinson, (address not available), $45,645.

Calif., San Diego — Common Council opened bids March 5, improving 14th St. between C St. and Imperial Ave., (a) 161,910 sq.ft. 1½ in. asphaltic concrete, 1 in. binder course on 4 in. concrete (b) 269 lin.ft. concrete curb, etc., from Griffith Co., 25 14th St., (a) $0.237 (b) $0.70; G. R. Daley, 4430 Boundary St., (a) $0.245 (b) $0.70. Noted Jan. 25.

Calif., Tulare—Paving with 4 in. concrete, curbing, guttering and laying sidewalks on L St., from Frederickson & Shannon, Cory Bldg., Fresno, $51,732; Martin Constr. Co., Brix Bldg., Fresno, $54,513; F. A. Mero, 401 16th St., Richmond, $56,420.

Calif., Whittier—Improving portion Pickering Ave., from Griffith Co., Los Angeles Ry. Bldg., Los Angeles, 182,000 sq.ft. grading $0.043, 182,000 sq.ft. 6 in. concrete pavement $0.257, 670 ft. curbing $0.60, 6,100 sq.ft. walks $0.21, etc.

CONTRACTS AWARDED

Conn., Norwalk—City, 1 mi. road leading to Calf Pasture Beach, to Strycker & Strycker, 198 Monmouth St., Red Bank, N. J., $26,000. Noted Feb. 22.

Streets and Roads (Continued)

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, recurbing and paving Bay 23rd St. and grading, curbing and flagging Ave. D, to Cranford Co., 52 9th St., $5,126 and $8,497 respectively; grading, curbing and flagging Conselyea and Maple Sts., to G. H. Cooper, 1674 Bway., New York, $2,909 and $7,912 respectively; paving Conselyea St. and curbing and paving Livonia Ave., both asphalt, to Borough Asphalt Co., 1301 Metropolitan Ave., $4,680 and $6,995 respectively; grading, curbing, flagging and laying sidewalks on 72nd St. also cement sidewalks on 18th Ave., West 5th and West 30th Sts., to Simonelli & Sons, Inc., 26 Conselyea St., $3,416, $1,596, $1,203 and $1,465 respectively. Noted Feb. 22.

Pa., Ebensburg—Supervs. West Carroll Twp., c/o Cambria Co. Controller, 8,135 ft. Bakerton-Spangler Rd., brick on concrete, to Bell-Bockel Co. Inc., 543 Vine St., Johnstown, $85,965. Noted Feb. 22.

Pa., Ford City—Grading, paving and curbing 5th and 6th Aves., 5th to 14th Sts. inclusive, incl. 25,000 cu.yd. grading, 56,000 sq.yd. paving and 33,000 lin.ft. curbing, to McCrady Bros., 6th Ave., Braddock, $282,593.

Pa., Phila.—Paving (1) Dists. 5, 6 and 7 (2) Dist. 1 (3) 48th St. (4) Schiller St. (5) 15th St. (6) Callowhill St. (7) paving several streets (8) 56th and Price Sts. (9) Broad and Robinson Sts. (10) Barabra, Bermuda, Howard, Marvine and Oxford Sts. (11) Sansom St. (12) 16th St. (13) Dist. 3 (14) 13th St., to United Paving Co., Colonial Trust Bldg., (1) $26,815 (2) $22,164; Union Paving Co., 37th and Spruce Sts. (3) $26,442 (4) $4,236; J. Mehan & Sons, 915 West Dauphin St., (5) $69,538; Barber Asphalt Paving Co., Land Title Bldg., (6) $39,223 (7) $28,454 (8) $25,108 (9) $25,685 (10) $26,570; Acchione & Canuso, 804 South 12th St., (11) $2,533 (12) $20,278; Ryan Constr. Co., Real Estate Trust Bldg., (13) $11,512; Centroni & Mezzola, Lincoln Bldg., (14) $42,610. Noted March 8.

D. C., Wash.—Dist. Comrs. paving certain streets, to Cranford Paving Co., 2620 E St. N. W., $371,514. Noted March 8.

West Virginia—State Rd. Comm., Charleston, grading and concrete paving 6.6 mi. road west to Upshur Co. Line Rd., Project 3159, Lewis Co., 34,652 lin.ft. clearing, 75,000 cu.yd. unclassified and 2,342 cu.yd. dry excav., 646 cu.yd. concrete, 16,830 lb. reinforcing, 2,380 lin.ft. 18 and 24 in. rein.-con. pipe, 12,918 cu.yd. one course concrete pavement, to Fuccy Bros. and Tully Constr. Co., Weston, $267,292, 0.4 mi. Gardner Ave., in Charleston, Kanawha Co., to Harris & Moore, Charleston, $16,011, 1.54 mi. Salem-Doddridge Co. Line Rd., Project 3204, Harrison Co., 8,162 lin.ft. clearing, 14,000 cu.yd. unclassified and 794 cu.yd. dry excav., 3,545 sta.yd. overhaul, 168 cu. yd. concrete, 2,631 lb. reinforcing, 2,956 cu.yd. one course concrete pavement, etc., to Salem Bridge & Constr. Co., Salem, $55,659. Projects 3227, 3084 A-B, 66, 3083 and 3009 A, Wood and Wirt Counties, 20,624 lin.ft. clearing, 55,250 cu.yd. unclassified, 1,500 cu.yd. dry and 1,225 cu.yd. borrow excav., 1,590 cu.yd., concrete, 1,804 lin.ft. 12-18 in. rein.-con. pipe, 29,205 cu. yd. one course concrete pavement, 3,100 lb. metal reinforcing for concrete pavement, etc., to Connell, Laub, & Bracht, Dayton, O. (street address not available), $482,058; grading and draining 3.4 mi. Low Gap-Madison Rd., Project 3151 B, Boone Co., 18,000 lin.ft. clearing, 61,350 cu.yd. unclassified, excav., 1,800 sta.yd. overhaul, 588 cu.yd. concrete, 6,675 lb. reinforcing, to Echols Constr. Co., Marlinton, $56,278, Maryland State Line-Aurora Rd., Project 126, Preston Co., 21,120 lin.ft. clearing, 52,000 cu.yd. unclassified, 1,808 cu.yd. dry and 1,792 cu.yd. borrow excav., 1,052 cu.yd. concrete, 18,575 lb. reinforcing, 1,931 lin.ft. 18 in. corrugated metal pipe, etc., to H. H. Bruffey, Webster Springs, $61,020, 9 mi. Robinson Run-Maysville Rd., Project 3146, Grant Co. 43,000 lin.ft. clearing, 55,300 cu.yd. unclassified, and 1,020 cu.yd. dry excav., 15,000 sta.yd. overhaul, 760 cu.yd. concrete, 13,000 lb. reinforcing, 1,910 lin.ft. 15-24 in. rein.-con. pipe, 6,400 cu.yd. shale surfacing, etc., to Dayton Constr. Co., Elkins, $76,503, 2.2 mi. McGuire Gap-Webster Springs Rd., Project 3199, Webster Co., 11,800 lin.ft. clearing, 50,000 cu.yd. unclassified, and 729 cu.yd. dry excav., 290 cu.yd. cement and 1,365 cu.yd. dry rubble masonry, to H. H. Bruffey, Webster Springs, $36,410, 3.8 mi. road from end of Project 3047 B to Project 96, Project 3180, Nicholas Co., 20,060 lin.ft. clearing, 27,500 cu.yd. unclassified, 607 cu. yd. concrete, 18,600 lb. reinforcing, etc., to Lookout Constr. Co., Lookout, $34,630, 15.3 mi. Spanishburg-Flat Top Rd., Project 121, Mercer Co., 81,000 lin.ft. clearing, 274,000 cu.yd. unclassified, 500 cu.yd. wet, 4,000 cu.yd. dry and 1,000 cu.yd. borrow excav., 77,000 sta. yd. overhaul, 3,030 cu.yd. concrete, 56,000 lb. reinforcing, to C. S. Waugh, Williamson, $254,680, 3.82 mi. road from end of Project 3170 A to Kansas Co. line, Project 3170 B, Clay Co., 20,180 lin.ft. clearing, 95,800 cu.yd. unclassified, 1,061 cu.yd. concrete, 9,855 lb. reinforcing, 1,390 lin.ft. 18 in. vitr. clay pipe, etc., to Messinger & Hager, Huntington, (street address not available) $80,435; grading and paving with bituminous macadam 6.7 mi. Hamlin-Griffithsville Rd., Project 3201, Lincoln Co., 35,000 lin.ft. clearing, 34,000 cu.yd. unclassified, 850 cu.yd. dry and 4,000 cu.yd. borrow excav., 500 cu.yd. concrete, 7,000 lb. reinforcing, 2,100 lin.ft. 18 in. rein.-con. pipe, 300 cu.yd. loose stone or slag, 2,000 cu.yd. stone sub-base course, 13,500 cu.yd. broken stone base, 68,500 sq.yd. bituminous macadam surface course, 154,000 gal. bituminous material for penetration macadam, etc., to Smith Constr. Co. Youngstown, O., (street address not available) $216,280; paving with brick on 5 in. concrete 250 ft. Garvin Ave., Kanawha Co., to G. T. Fogle & Co., Charleston, $4,964; grading and gravel surfacing Projects 58 A and B, 3080, 3092 and 103 A and B, Tyler and Pleasants Counties, 23,432 cu.yd. unclassified and 640 cu.yd dry excav., 44,396 sta. yd. overhaul, 1,000 cu.yd. concrete, 3,723 lb. reinforcing, 41,820 cu.yd. gravel surfacing, etc., to Connell, Laub & Bracht, Dayton, O., (street address not available) $129,890; grading and paving with oil and Trinidad asphalt 1 mi. Crescent Rd., Mary St. and Park Dr. in Charleston, Kanawka Co., to Andrews Asphalt Paving Co., 717 Rentschler Bldg., Hamilton, O., $28,217, ¾ mi. Couch, Elm, Car and Spring Sts. in Charleston, Kanawha Co., and Youny, North Rano, Broad and Alley Sts. and Ohio Ave. in Charleston, Kanawha Co., to Board & Haley, Charleston, $25,685 and $18,626 respectively; paving with waterbound macadam 5 mi. Mechanicsburg Gap-Mineral Co. line Rd., Project 3011 B, Hampshire Co., 10,000 cu.yd. unclassified excav 3,000 cu.yd. stone subbase course, 6,500 cu. yd. broken stone base, 46,800 sq.yd. waterbound macadam, and Project 3010, Mineral Co., 20,000 cu.yd. unclassified excav., 1,000 cu.yd. stone subbase course, 13,500 cu.yd. broken stone base, 97,000 sq.yd. waterbound macadam, 1,000 ton cover coat, to Russel & Gray, Youngstown, O., (street address not available) $68,144 and $140,135 respectively; paving with bituminous macadam road from end of Project 77 to Clintonville, Project 3041, Greenbrier Co., 500 cu.yd. stone subbase course, 6,680 cu. yd. broken stone base, 30,100 sq.yd. bituminous macadam, 75,250 gal. bituminous material for penetration macadam, to Sutton Constr. Co., Ashland, Ky., $98,034; gravel surfacing 3 mi. New Martinsville-Wileyville Rd., Project 3081, Wetzel Co., 6,000 cu.yd. excav., 9,400 cu.yd. gravel surfacing, to Keeley Constr. Co., Clarksburg, $30,340. Noted Feb. 15

W. Va., Wheeling—Repaving Market and Main Sts., vitr. brick, to Coss & Otto, Wheeling, (street address not available), $126,733.

N. C., Charlotte—Mecklenburg Co. paving with topeka asphalt, 4½ mi. County Home Rd., 4 mi. Derita Rd. and 3 mi. Cornelius Rd., to Noll Constr. Co., Charlotte, $257,244. Noted March 1.

N. C., Red Springs—Grading and asphaltic paving Main St., to R. G. Lassiter & Co., Citizens Natl. Bank Bldg., Raleigh, $40,000. Noted Jan. 11.

Ala., Birmingham—Jefferson Co., paving ¾ mi. Pratt City-Birmingham Rd., 11,000 sq.yd. asphalt on concrete, to H. N. Bowdry, Empire Bldg., $26,943.

La., New Orleans—Comn. Council let contracts for paving various streets to (A) Craven & Lang, Carondelet Bldg. (B) Hampton-Reynolds, Maison Blanche Bldg. (C) Globe Constr. Co., Louisiana Bldg. (D) H. W. Bond & Co., New Orleans, (street address not available), refined Trinidad Lake asphalt on 1,080 ft. Audubon St. from Ferdinand to Magazine Sts., to (A), subsurface drainage to J. O. Chisholm, 210 Saratoga St., $16,661; 1,830 lin.ft. Audubon St. from St. Charles to Zimple Sts., to (A), drainage to Hercules Co., Cotton Exch. Bldg., $24,646; 2,340 lin.ft. Poland St. from St. Claude to Dauphine Sts., to (A), drainage to A. P. Boh & Co., 4148 Banks St., $26,009; 730 lin.ft. Poland St. from Dauphine to Chartres Sts., to (A), drainage to A. P. Boh & Co., 4148 Banks St., $7,350; 2,800 lin.ft. Constance St. from St. Mary to 3rd Sts., to (A), drainage to Hercules Co., Cotton Exch. Bldg., $34,139; 680 lin.ft. Pine St. from Fontainbleau Dr. to Mobile St., to (A), drainage to A. P. Boh & Co., 4148 Banks St., $10,005; 5,000 lin.ft. Fontainbleau Dr. from South Carrolton to Audubon Sts., to (A), drainage to T. Egan Sons, 4330 Canal St., $54,664; 140 lin.ft. Pine St. from Mobile to South Claiborne Sts., to (A), drainage to A. P. Boh & Co., 4148 Banks St., $4,385; 330 lin.ft. Pine St. from Broad St. to Fontainbleau Dr., to (A), drainage to A. P. Boh & Co., 4148 Banks St., $2,600; 2,370 lin.ft. Cadiz St. from St. Charles to Constance Sts., to (A), drainage to Hercules Co., Cotton Exch. Bldg., $32,015; 910 lin.ft. Dufossat St. from St. Charles to Prytania Sts., to (A), drainage to A. P. Boh Co., 4148 Banks St., $12,492; 2,240 lin.ft. Elenore St. from St. Charles to Coliseum Sts., to (A), drainage to Hercules Co., Cotton Exch. Bldg., $28,467; 360 lin.ft. St. Mary St. from Magazine to Constance Sts., to (A), drainage to (A), $3,845; 770 lin.ft. Villere St. from Canal to Tulane Sts., to (A), drainage to M. Mitchell, 2646 Banks St., $17,218; creosoted wood block on 750 lin.ft. Calliope St. from South Peters to Water Sts., to (B), drainage to (B), $2,815; 780 lin.ft. Girod St. from St. Charles to Magazine Sts., to (B), drainage to A. P. Boh & Co., 4148 Banks St., $8,400; 230 lin.ft. Magazine St. from Audubon to Walnut Sts., to (B), drainage to A. P. Boh & Co., 4148 Banks St., $4,581; 1,030 lin.ft. South Peters St. from Terpsichore to Race Sts., to (B), drainage to (B), $15,808; bituminous concrete on 420 lin.ft. Hagan Ave. from Bell to DeSoto Sts., to (C), drainage to Craven & Lang, Carondelet Bldg., $3,632; 240 lin.ft. Sycamore St. from Bway. to Audubon St., to (C), drainage to A. P. Boh & Co., 4148 Banks St., $2,711; 6,800 lin.ft. St. Claude St. from Elysian Fields to Montegut St., to (C), drainage to H. A. Forest, 918 Short St., $68,530; 980 lin.ft. Washington St. from Coliseum to Magazine Sts., to (C), drainage to A. P. Boh & Co., 4148 Banks St., $20,716; creosoted wood block on 8,210 lin.ft. Magazine St. from Napoleon Ave. to Exposition Blvd., to (D), drainage to Hampton-Reynolds, Maison Blanche Bldg., $78,299; 3,940 lin.ft. Magazine St. from Louisiana to Napoleon Aves., to (D), drainage to Hampton-Reynolds, Maison Blanche Bldg., $56,430; Uvalde rock asphalt on 5,000 lin.ft. Fontainbleau Dr. from South Carrolton Ave. to Audubon St., to Uvalde Rock Asphalt Co., Central Trust Bldg., San Antonio, Tex., drainage to T. Egan Sons, 4330 Canal St., $54,664; sheet asphalt on 500 lin.ft. Walnut St. from Magazine to Leake Sts., to Southern Roads Co., Weiss Bldg., drainage to Craven & Lang, Carondelet Bldg., $7,881.

O., Akron—W. F. Peters, dir. Pub. Serv., opened bids March 8, grading and laying sidewalks on (1) 1,500 ft. Clifton Ave., 1,500 lin.ft. concrete gutter, 9,710 sq.ft. cement sidewalk, 5,350 cu.yd. earth excav., engrs. est. $9,150 grading and paving with (a) brick (b) concrete (c) asphalt on (2) 320 ft. Lee Dr., 16 ft. (3) 450 ft. Bank alley, 16 ft. (4) 400 ft. Marion Pl., 24 ft. (5) 1,200 ft. 5th Ave., 26 ft., 2,185 lin.ft. stone curb, 6,160 sq.ft. sidewalk, 3,400 cu.yd. earth excav., 3,890 sq.yd. vitr. brick or asphalt on concrete, from Schroeder & Caputa Constr. Co., 1950 West Federal St., Youngstown, (1) $8,630 (3a) $3,537 (3b) $2,897; H. G. Baltes, 883 Bloomfield Ave., (1) $9,149; H. T. French Constr. Co., 683 Noah Ave., (1) $9,888; Hollinger & Davidson, 435 South Bway., (2a) $3,480 (2b) $3,021 (3a) $3,988 (3b) $3,628 (4a) $8,495; McAlonan Bros., 197 West Buchtel Ave., (2a) $3,721 (2b) $3,127 (3a) $3,896 (3b) $3,456 (4a) $9,157 (5a) $30,230; H. Gilbert, 19 North Martha Ave., (2a) $4,308 (2b) $3,639; Di Foti Constr. Co., 72 Furnace St., (4a) $9,885 (4c) $9,491; T. E. McShaffrey Constr. Co., 171 South Forge St., (5a) $32,562 (5c) $32,162; V. Olson Contg. Co., 501 Herberich Bldg., (5a) $34,288. Noted March 1.

O., Cleveland—Grading, curbing and paving Elk Ave. from East 106th to East 107th Sts., to River Constr. Co., 2402 Mapleside Rd., $5,502; Oak Ave., to Rieley Bros., The Arcade, $11,789; West 100th St. from Loretta to Walford Aves., to Roehl Bros., West 25th St. and Clark Ave., $17,913; East 110th St. from Miles Ave. to point 610 ft. northerly, to Enterprise Paving & Constr. Co., 8444 Bway., $10,309. Work involves 5,200 lin.ft. stone curb and 4 in. tile drain gutter, 3,760 cu.yd. earth excav., 7,840 sq.yd. vitr. brick. Noted Jan. 11.

O., Cleveland—Grading, curbing and paving East 108th St. from Miles to Howard Aves., to O. J. Leach, Eddy Rd., $18,396 East 122nd St. from Miles to Puritan Ave., to Enterprise Paving & Constr. Co., 8444 Bway., $17,948. Work involves 5,020 lin. ft. stone curb and 4 in. tile drain gutter, 3,800 cu.yd. earth excav., 8,860 sq.yd. vitr. brick on concrete. Noted March 1.

O., Shaker Heights (Cleveland P. O.)—Grading and asphalt paving East 150th St., Helena Ave., North Moreland Blvd., Milverton and Warwick Rds., to Cleveland Trinidad Paving Co., The Arcade, $148,338. Noted March 1.

Streets and Roads (Continued)

Ill., Columbia—City and State, paving and curbing 6,000 ft. Main St., 36 ft., 17,872 sq.yd. 7 in. concrete, 11,113 lin.ft. concrete curb, 4,618 cu.yd. excav., etc., to Dawson & Bowers, Century Bldg., St. Louis, Mo., $55,311. Noted Feb. 22.

Wis., Evansville—Paving East Main St., 10,692 sq. yd. concrete etc., to O'Dea & Shafer, 1019 Oregon St., Madison, $35,546. Noted Feb. 22.

Wis., Fond du Lac—Fond du Lac Co. opened bids improving Fond du Lac-Eden-Waucousta-Kewaskum Rd., Sect. A, from P. C. Kroeck, 1000 Humboldt Ave., Milwaukee, 24,436 cu.yd. earth excav. $0.80, 71,400 sq.yd. concrete surfacing $1.48, etc. total $140,212; Sect. B, from Lampert Constr. Co., 11 Algoma St., Oshkosh, 33,103 sq.yd. concrete surfacing $1.58, etc., total $65,290; Sects. A and B combined, from Lampert Constr. Co., 11 Algoma St., Oshkosh, 24,436 cu.yd. earth excav. $0.84, 104,503 sq.yd. concrete surfacing $1.48, etc., total $201,889. Noted March 1.

Wis., Hartford — Paving Union, State, Main, Branch and Grand Sts., 2 course concrete, to Manitowoc Constr. Co., 826 South 8th St., Manitowoc, $125,395.

Wis., Jefferson—Jefferson Co. State Road and Bridge Com., surfacing, etc. Helenville-Sullivan Rd., to Peppard, Burrell & Lynch, Minneapolis, Minn., (street address not available), 6,500 cu.yd. earth excav. $0.75, 39,000 sq.yd. concrete surfacing $1.43, etc., total $71,754; Oconomowoc-Watertown Rd., to McGucken Constr. Co., 425 East Water St., Milwaukee, 18,478 cu.yd. earth excav. $0.82, 1,133 cu.yd. borrow $1, 39,838 cu.yd. concrete surfacing without joints and cement $1.38, etc., total $83,390. Noted Feb. 15.

Wis., Kenosha—Kenosha Co. State Road and Bridge Com., surfacing, etc. Antioch-Salem Rd., to Brennan & Bounsel Co., Kenosha, (street address not available), 9,692 cu.yd. earth excav. $0.85, 18,598 sq. yd. concrete surfacing $1.40, etc., total $41,176; concrete widening Geneva Rd., to G. R. Wade Constr. Co., 704 Lake Ave., 10,500 sq.yd. concrete surfacing $1.43, etc., total $18,108. Noted Feb. 15.

Wis., Milwaukee — Milwaukee Co. concrete surfacing, etc., 2 mi. Lisbon Rd. 2, 24 ft., concrete, to Kroening Constr. Co., 39th Ave. and Mitchell St., $68,504. Noted Feb. 22.

Wis., Owen—Concrete paving Central Ave., 1,925 lin.ft. concrete curb, 1,300 cu.yd. earth excav., 5,570 sq.yd. concrete to W. F. Weaver, Owen, $20,216; street lighting to Lenmark & Graham, Owen, $3,742. Noted Feb. 8.

Wis., Racine—Racine Co. will concrete surface, etc., 1 mi. Windlake relocation on State Trunk Highway 36, 1.25 mi. Burlington-Geneva Rd., on State Trunk Highway 36, from Burlington to Walworth Co. line, 2 mi. Browns Lake Rd., northeasterly from Burlington, by day labor. Wisconsin Hy. Comn., Madison, engrs.

Wis., Waterloo—Paving various streets with rein.-con., concrete curbs and gutters, to Campbell Constr. Co., 3050 Hennepin Ave., Minneapolis, Minn., $29,173 exclusive of cement. Engrs. ets. $30,000.

Ia., Bettendorf—Paving 15 blocks Washington Ave., to Central Eng. Co., 809 Putnam Bldg., Davenport, $79,283. Noted Feb. 1.

Ia., Le Mars—To Moore-Young Constr. Co., Waterloo, approximately 100 blocks vibrolithic concrete paving, $2.44 per yd. Engrs. est. $350,000.

Ia., Northwood—Worth Co. grading 9.5 mi. Primary Rd. Project 216, through Fertile west and Northwood west, 113,113 cu. yd. excav. to Leach Bros., Omaha, Neb. (street address not available), $0.24 per cu. yd.; 1,100 ft. 6 in. drains, 2,565 ft. 12 in. drains and 3 intakes, to Lofdal & Curtis, Northwood, $0.11, $0.30 and $20 respectively. Noted Feb. 15.

Minn., Fergus Falls—Paving 20,009 sq. yd. various streets, 3 in. brick block on 5 in. gravel, to W. E. Kennedy, Fargo, N. D. (street address not available), $3.65 per sq.yd., total incl. excavation, etc., $81,935. Noted Feb. 15.

Minn., Minneapolis—Plans to expend $1,306,871 during 1923 for paving, incl. 110,811 sq.yd. asphaltic concrete $402,497, 80,468 sq.yd. creosoted wood block $400,591, 64,132 sq.yd. brick $316,870, 21,750 sq.yd. concrete $80,490, 8,145 sq.yd. recut granite $42,677, 8,958 sq.yd. granite $63,735. Work will be done by day labor under supervision of City Eng. Dept. E. R. Dutton, asst. city engr.

Kan., Frontenac—Paving various streets, 10,917 sq.yd. vitr. brick, to J. Stanton, 6th & Kiowa Sts., Leavenworth, $2.67 per sq. yd., etc., total $41,052. Noted Nov. 23.

Kan., Salina—Grading and brick paving various streets, to M. R. Amerman, 248 North Market St., Wichita, $301,200; Noted March 1.

Neb., Tekamah—Paving various streets, 33,140 sq.yd. vifr. brick, to Bauer & Johnston Constr. & Supply Co., 1124 Cass St., Omaha, $127,931. Noted Feb. 8.

N. D., Wahpeton—Paving 37 blocks, 50,000 sq.yd. concrete, 27,700 lin.ft. curb and gutter, to W. E. Kennedy, Fargo, $190,136.

Tex., Abilene—Taylor Co. grading 11.32 mi. and gravel surfacing 8.33 mi. State Highway 7, Federal Aid Project 182, 16 ft., to Womack Constr. Co., Sherman, $61,000. Noted Feb. 15.

Tex., Bryan—Resurfacing 25,000 sq.yd. Main St., et. al., 2 in. rock asphalt, to Smith Bros. Constr. Co., Sumpter Bldg., Dallas, $1.58 per sq.yd. Engrs. est. $30,000. Noted Jan. 18.

Tex., Dallas—McNeny & McNeny, Dallas, paving 13 blocks incl. Montivello, Ridgedale, Vanderbilt, McMillan and Workola Sts. in Greenland Hills, 30 ft., 2 in. Uvalde rock asphalt on 5 in. concrete, to Uvalde Rock Asphalt Co., Insurance Bldg., $3.18 per sq. yd.; walks, curbs and gutters on various streets in Greenland Hills addition, to W. G. Marshall Co., Southwestern Life Bldg., $21,775; grading, to Cullum & Haralson, North Texas Bldg., $9,125; water mains to W. G. Cullum, 4018 Gilbert St., $12,800; gas mains, to Dallas Gas Co., 2016 Jackson St., $17,880.

Tex., Del Rio—Val Verde Co. grading and gravel surfacing 11.82 mi. Highway 12, to Rice & Bates, Comstock, $54,806. Noted March 8.

Tex., Henderson—Rusk Co. gravel and clay surfacing 14.93 mi. State Highway 26, 12 ft., to Standifer & Wood, Royce City, $32,472; 9,516 cu.yd clay and 26,261 cu.yd. gravel to be furnished by county $7,000. Noted Dec. 14.

Tex., Highland Park—Paving curbing and guttering 26 blocks, here and in Mt. Vernon, 30 ft., 1½ in. asphaltic concrete on 5 in. concrete, to Fuller Constr. Co., Sumpter Bldg., Dallas, $120,000.

Tex., Houston—Graveling 1 mi. Truxillo Ave. from Almeda to Austin Sts., Galveston St. from Thompson to Patterson Sts., Columbia St. from 14th to 15th Sts., 4th St. from Arlington to Oxford Sts., 30 ft. to Griswold & Walling, Carter Bldg., $38,016.

Tex., Liberty—Liberty Co. grading, etc. 34.54 mi. State Highway 3, Beaumont-Houston Highway, 30 ft., to H. Kenyon Dredging Co., 3603 McKinney Ave., Houston, $196,500. Noted March 8.

New Mexico—State Hy. Dept., Santa Fe, grading, surfacing, etc., 16.067 mi. road between Hondo and Picacho, Federal Aid Project 82, Lincoln Co., to H. E. Williams, 2914 Tularosa St., El Paso, Tex., $127,752, contractor to furnish culvert material; 16.989 mi. road between Kermit and Kenna, Federal Aid Project 89, Roosevelt Co., to J. F. Hamer, Route 4, Box 200, Ft. Worth, Tex., $69,959; 9.927 mi. road between Kenna and Elkins, Federal Aid Project 103, Chaves Co., to Peterson Shirley & Gunther, W. O. W. Bldg., Omaha, Neb., $51,919; 14.227 mi. road east and west through Lordsburg, Federal Aid Project 87, Hidalgo Co., to O. R. Smith, 1911 Grant St., Denver, Colo., $55,588; 1.562 mi. road across Eight Mile Draw, west of Roswell, Federal Aid Project 71, Chaves Co. and 7.165 mi. road between Hot Springs and Arrey, Federal Aid Project 104, Sierra Co., to J. Mulligan, 4131 Cambridge St., El Paso, Tex., $18,788 and $58,966 respectively; 10.32 mi. road between Raton and Meloche, Federal Aid Project 92, Colfax Co. and 8.005 mi. road between Meloche and Dedman, Federal Aid Project 93, to Morrison & Morrison, Denver, Colo., (street address not available), $69,976 and $37,307 respectively, State to furnish culvert material except where otherwise specified. Noted Jan. 18.

Wash., Spokane—Spokane Co., grading and surfacing 7.63 mi. Coulee-Hite Rd., 24 ft., 17,000 cu.yd., waterbound macadam, 80,000 cu.yd. earth excav., 3,400 cu.yd. rock excav., to Campbell & Barr, Colfax, $73,978, engrs. est. $75,000; 7.03 mi. Cheney-Plaza Rd., 24 ft., crusned rock macadam, 50,000 cu.yd. earth and 900 cu.yd. rock excav., to Mohr Constr. Co., Waterville, $64,458; 8.67 mi. Trent Rd. from Irvine to Idaho State line, 20-24 ft., 102,700 sq.yd. 7 in. concrete, 50,000 cu.yd. gravel excav., to Independent Asphalt Paving Co., Seaboard Bldg., Seattle, $219,295. Noted Dec. 21.

Wash., Spokane — City Comrs., grading and paving 1.9 mi. Northwest Blvd. from G. St. to west city limits, 24,079 cu.yd. 7 in. concrete, 20,593 lin.ft. 3 x 8 in. wood headers, 8,189 cu.yd. earth excav., etc., to G. H. Waller, North 618 Medalia St., $50,621. Engrs. est. $51,000. Noted Feb. 1.

Oregon—State Hy Dept., Salem, Bauers & Bauers, Dayton, Wash., clearing, grubbing, grading and surfacing 14.08 mi. John Day Highway from Coles Bridge to Cummings Creek, Grant Co., $156,650, engrs. est. $176,000, 12.6 mi. Sherman Highway from Grace Valley to Kent, Sherman Co., $108,440, engrs. est. $142,500; 7.91 mi. Sherman Highway from Kent to county line, Sherman Co., $79,297, engrs. est. $105,250; to J. Hampshire, Grants Pass, 8.61 mi. Crater Lake Highway, Cascade Gorge section, Jackson Co., $132,228 (corrugated galvanized iron pipe), engrs. est. $175,000; to J. K. Shotwell, Hermanton, furnishing 12,000 cu.yd. broken stone, 2.1 mi., Old Oregon Trail from Echo to Pendleton, Umatilla Co., $15,480, engrs. est. $17,250.

Calif., Los Angeles—Improving Compton St. between Vernon Ave. and south city limits, 306,386 sq.ft. 6 in. concrete, to G. H. Oswald, 366 East 58th St., $30,175. Noted March 8.

Calif., Los Angeles—Improving Crenshaw St. between Washington and Adams Sts., to G. R. Curtis, 2240 East 26th St., $93,221. Noted Jan. 25.

Calif., Oroville—Butte Co. will construct 5.2 mi. Neal Rd., Sect. B, by day labor under supervision of H. H. Hume, co. road engr. Noted Feb 22.

Calif., San Francisco — City and San Francisco Co. improving boulevard connecting Sutro heights with Lincoln Park, to J. D. McElroy, 180 Jessie St., $56,615. Noted March 1.

Quebec—Provincial Government, Quebec, 42,661 ft. oil macadam road in St. Louis de Lotbiniere, to J. E. Paquin, DeNormanville St., Montreal, $184,000.

Industrial Works

PROPOSED WORK

Mass., Baldwinsville — Kenney Bros. — Walters Co. plans to rebuild factory recently destroyed by fire. Cost, incl. equipment $100,000.

Mass., Cambridge—National Biscuit Co., 10th Ave. and 15th St., New York City, plans rein.-con. bakery, here. $200,000. Engineer and architect not announced.

Mass., Holyoke—Oliver Motor Co., Race St., plans 3-story garage, rein.-con. $50,000-$70,000.

Mass., South Boston (Boston, P. O.)—Gillette Safety Razor Co., 41 West 1st St., had plans prepared by C. T. Main, archt., 49 Federal St., Boston, 8 story and basement, 80 x 100 ft. addition to plant, rein.-con. and brick. $200,000. Noted Dec. 21.

R. I., Providence—J. Trambukis, care B. S. D. Martin, archt., 86 Weybosset St., having plans prepared 1-story, 60x110 ft. garage and service station, concrete, brick and steel, plain foundation, Delaine St. and Manton Ave. $40,000.

R. I., Providence—F. D. McKendall, care B. S. D. Martin, archt., 86 Weybosset St., having plans prepared 2-story, 75x100 ft. garage and service station, concrete and brick, plain foundation; Elmwood Ave. $50,000.

R. I., Providence—D. Bellilore, Aborn St., having plans prepared 1-story, 16 ft. high, 50x150 ft. garage, repair and service station, brick and steel, Aborn St. $40,000. Private plans.

R. I., Providence—G. Gush, 218 Sackett St., having plans prepared 1-story, 95x100 ft. garage, brick and steel, Elmwood Ave. and Warrenton St. $45,000. Architect and engineer not announced.

Conn., Georgetown—Greenwood & Noerr, archts. and engrs., 847 Main St., Hartford, open bids about March 19, 3 story, 50 x 135 ft. addition to wire mill, rein.-con. and brick, also 1 story, 40 x 45 ft. cleaner house, brick and steel, here, for Gilbert & Bennett Mfg. Co. $100,000.

Conn., Putnam—Adams Mfg. Co. plans altering and building, large 1 story weave shed, brick and steel, also additional story on top of present main mill. Engineer and architect not selected.

N. Y., Binghamton—Kroehler Mfg. Co., Ely St., plans 4 story and basement, 60 x 200 ft., brick, concrete and steel factory. $100,000-$125,000.

N. Y., Binghamton—Larrabee-Deyo Motor Truck Corp., 23 Washington St., plans concrete, steel and brick plant, 50,000 sq. ft. floor space, Main and Emma Sts. $200,000. F. T. Macey, vice pres

N. Y., Falconer—Amer. Mfg. Co., plans 3 story, 60 x 106 ft. timber and sheet tin, Work St. To exceed $45,000. Engineer and architect not announced.

N. Y., Hornell—Hornell Lumber Co., 290 Main St., plans rebuilding plant recently destroyed by fire. Loss $100,000. R. M. Smith, 2 East Main St., owner.

Industrial Works (Continued)

N. Y., New York—Dept. Plant & Structures, Municipal Bldg., soon takes bids 2-story, 50x150 ft. housing station, brick, steel and concrete, plain foundation, Cornwall Ave. Private plans.

N. Y., New York—W. S. Ferguson Co., archts., 1900 Euclid Ave., Cleveland, O., soon lets contract 6 story, 175 x 200 ft. rein.-con. service building, West 131st St., here, for Studebaker Corp., 2020 Euclid Ave., Cleveland, O.

N. Y., Rochester—Cullinan-Malcolm Co., Inc., 4322 Lake Ave., plans 50 x 150 ft., auto sales and service station, brick, Lake Ave. $40,000. Engineer and architect not announced.

N. Y., Syracuse—Bendixen Tobacco Co., 1103 Lodi St., plans 3 story, brick factory, West Belden Ave. $50,000.

N. Y., Utica—Dairymen's League Co-operative Assn., 333 Lafayette St., had plans prepared 2 story, 60 x 180 ft. plant, steel and concrete, Wurz Ave. $70,000. H. A. Sieck, 222 Lafayette St., ch. engr.

N. J., Bloomsbury—Bloomsbury Graphite Co. plans rebuilding portion of its graphite products and foundry facings plant, recently destroyed by fire. $40,000. Engineer and architect not anounced.

Pa., Allentown—Allen Laundry Co., 39-41 North 10th St., plans 100x120 ft. laundry, concrete blocks, Allen and Jefferson Sts., to exceed $50,000. Engineer and Architect not announced.

Pa., Altoona—Birshitz & Goldberg, 2214 Beale Ave., having plans prepared for 2 or 3 story, 50 x 150 ft., concrete and brick garage, 2210 Beale Ave. $40,000. Private plans.

Pa., Bernille—Bernville Light & Heat Co. plans additions to power plant and extensions to power lines, to exceed $50,000. Address O. C. Showers, pres.

Pa., Erie—Erie Lithographing & Printing Co., plans brick and steel plant. $1,000,000. Engineer and architect not announced.

Pa., Erie—Keystone Fish Co., Erie, plans to rebuild warehouse recently destroyed by fire, French St. $75,000. Engineer or architect not announced.

Pa., Hazleton—Hazleton Iron Wks. Co. plans to rebuild portion of plant recently destroyed by fire. $65,000. Engineer and architect not announced.

Pa., Hughesville — Shindel Silk Corp., plans 2 story and basement, 60 x 100 ft., brick and steel addition to mill. $50,000. M. R. Rosendale, mgr.

Pa., Lebanon—Lebanon Iron Co. plans to rebuild plant recently destroyed by fire. $200,000-$250,000. Engineer and architect not announced.

Pa., New Castle—New Castle Metal Products Co., 716 West Brant St., plans 1 story, 40 x 185 ft. plant, West Brant St. Engineer and architect not announced.

Pa., Oil City—Penn-Amer. Refining Co., Oil City, plans 1 story, 45 x 60 ft. brick power house. $75,000. Rust Eng. Co., 311 Ross St., Pittsburgh, engrs.

Pa., Pittsburgh—H. Posner, care Alpha Sign Co., 231 Spahr St., plans 4-story and basement, 100x138 ft. rein.-con., brick and steel garage, Baum Blvd. and Neville St. $150,000. Engineer and architect not selected.

Pa., Pittsburgh—Jones Motor Car Co., 10th and Muriel Sts., having plans prepared by C. R. Geisler, archt., Ferguson Bldg., 3 story and basement, 42 x 120 ft., brick, steel and tile garage, Carson and Bingham Sts. $40,000.

Pa., Pittsburgh—Allen-Kirkpatrick Co., 903 Liberty Ave., having plans prepared by Hunting-Davis Co., archts., Century Bldg., 2 story and basement, 100 x 100 ft., brick and steel warehouse, Galveston Ave. $150,000.

Pa., Pittsburgh — K. G. Snyder, Natl. Pittsburgh Auto Co., Baum Bldg., plans 4 story and basement, 50 x 87 x 120 ft., rein.-con. and brick garage, Baum Blvd. and Fairmount Ave. $100,000. Engineer or architect not selected.

Pa., Verona—Pittsburgh Wire Rope Co. plans 1-story and basement, 120x150 ft. rein.-con., brick and steel plant. $150,000. Engineer or architect not selected.

Md., Baltimore—Archers Laundry, Howard and Mulberry Sts., plans 3-story laundry, brick, 700 Block North Eutaw St. $500,000. J. Archer, pres. Engineer and architect not selected.

Md., Baltimore—Baltimore Ice Mfg. Co., care A. Beard, pres., Hopkins Apartment, plans 2-story, 60x165 ft. plant, rein.-con. and brick, 409-11 North Exeter St., $175,000. Architect and engineer not selected.

W. Va., Wheeling—McGraw Motor Co., 1000 Main St., having plans prepared by F. F. Faris, archt., Wheeling Steel Bldg., 2-story, 85x125 ft., service station, brick, stone and steel, 2011 Main St. $40,000.

N. C., Belhaven—Interstate Co-operative Co. plans to rebuild portion of woodworking plant, destroyed by fire. $50,000. Engineer and architect not announced.

N. C., Biltmore—William-Brownell Lumber Co. plan to rebuild mill, partially destroyed by fire. $90,000. Engineer and architect not announced.

N. C., Concord—Gibson Mfg. Co. plans addition to cotton mill. Lockwood-Greene & Co., Piedmont Bldg., Charlotte, engrs.

N. C., Lumberton—Lockwood, Greene & Co., engrs., Piedmont Bldg., Charlotte, soon lets contract 1 story, 180 x 280 ft. cotton mill, brick, for Mansfield Mills. $75,000. Noted Feb. 1.

N. C., Worthville—Riverside Mfg. Co., plans adition to cotton mill, to house 5,000 spindles, 150 looms. Lockwood-Greene & Co., Piedmont Bldg., Charlotte, engrs.

O., Cleveland—Cleveland Ice Cream Co., West 47th St. and Train Ave., having plans prepared by K. W. Schontz, archt. and engr., Buffalo, N. Y. (street addres not available), 1 and 3 story, brick, steel and concrete factory addition. $200,000.

O., Cleveland—See "Buildings."

O., Cleveland—M. Glick Mfg. Co., 711 Woodland Ave., plans 2-story and basement, 25x145 ft., brick and steel factory addition. $40,000. Private plans.

O., Cleveland—W. H. Foote, 1571 Columbus Rd., had plans prepared by Christian, Schwarzenberg & Gaeda, archts., 1900 Euclid Ave., 2-story and basement, 42x110 ft., brick and steel factory, East 140th St. north of St. Clair Ave. $40,000.

O., Cleveland—A Teachout Co., 321 Prospect Ave., N. W., plans 1-story sash and door mill, brick, steel and concrete. $250,000. D. W. Teachout, pres. Engineer and architect not selected.

O., Cleveland—Salvation Army, care V. Post, 122 West 14th St., New York City, having plans prepared by H. V. Chase, archt., care owner, 4-story, 60x180 ft. industrial building, brick, steel and concrete, East 55th St. near Longfellow Ave., here. $200,000.

O., East Palestine—W. S. George, plans 2 story, 156 x 400 ft. pottery plant, brick, in 9 units. Engineer and architect not selected.

O., Grandview Heights (Columbus, P. O.) —Preparing plans 6 in. c.i. mains in various streets. $50,000. Burgess & Niple, 141 East Broad St., Columbus, engrs.

O., Salem—Victor Stove Co. plans rebuilding plant, recently destroyed by fire. Loss $250,000.

Ind., Indianapolis — Chandler & Taylor Co., 205 South Addison St., plans to rebuild foundry recently destroyed by fire. $150,000.

Mich., Detroit—Kroger Grocery & Baking Co., 1812 Clay Ave., having plans prepared by J. G. Kastler & Co., archts., 523 Detroit Savings Bank Bldg., 1 story and part basement, 50 x 150 ft. rein.-con., brick garage and repair shop, Merritt and Junction Aves. $40,000.

Wis., Green Bay—Bay Verte Machine Co., 317 West Walnut St., plans 2 story and basement, 50 x 95 ft., repair and machine shop, brick, rein.-con. and steel, plain foundation. $50,000. W. Hinklo, mgr. Engineer and architect not selected.

Wis., Madison — L. F. Schoelkopf, 210 East Washington Ave., having plans prepared by J. R. and E. J. Law, archts., First Central Bldg., 1 story, 66 x 150 ft., garage and service station, brick, rein.-con. and steel, plain foundation, Washington St. $40,000.

Wis., Manitowoc—S. W. Randolph having plans prepared by W. J. Raeuber, archt., Manitowoc, 1 story, 125 x 400 ft., dock warehouse and equipment, brick and steel, plain foundation, on Inner Harbor. $75,000.

Wis., Phillips—G. J. Goetsch plans 2 story and basement, 62 x 80 ft., brick and concrete garage, plain foundation. $40,000. Engineer and architect not selected.

Ia., Denison—Denison Bulletin & Herald, c/o Finern & Bosgeran, having plans prepared by E. L. Barber, archt., Denison, 2 story and basement, 40 x 80 ft., brick and concrete, newspaper plant. $40,000.

Ia., Des Moines—Eagle Iron Wks., Court and southeast 3rd Sts., having plans prepared by W. B. Holtzman, Jr., archt., 406 Flynn Bldg., 2 story and basement, 80 x 280 ft., brick and concrete factory, Court and southeast 3rd St. $100,000.

Tex., Belton—Belton Ice & Refrigerating Co. plans to rebuild 2 story, brick plant, plain foundation, recently destroyed by fire, $65,000. Engineer and architect not announced.

Tex., Houston—J. Finger, archt., Woolworth Bldg., receives bids about March 28, 3 story, concrete factory, plain foundation, San Jacinto St., for Houston Typewriter Exch., 408 Fannin St. $60,000.

Tex., Mesquite — Mesquite Textile Mills Co. having plans prepared by L. E. Robert, Jr., archt., Tuft Bldg., Atlanta, Ga., 6,000 spindle cotton mill. $400,000. J. S. Lawrence, secy.

Tex., Stamford—West Texas Utilities Co. soon takes bids 2 story power house, brick, plain foundation. $90,000. S. E. Morley, supt.

Tex., Texas City—Texas Sugar Refining Co. plans refinery. $5,500,000. Private plans.

Tex., Waco—B. D. Easterwood, archt., 412 Praetorian Bldg., soon takes bids 2 story, 85 x 165 ft., brick, mill, plain foundation, for L. B. Smyth, 828 North 17th St. $500,000.

Calif., Emeryville — See "Contracts Awarded."

Calif., Folsom—Pratt Building Material Co., Hearst Bldg., San Francisco, plans rock crushing and gravel plant, also industrial railroad, here. Cost incl. equipment, $200,000. C. F. Pratt, pres.

Calif., Fullerton—County Brick & Tile Co., headed by F. C. Krause, plans plant, 50,000 brick daily capacity. $60,000.

Calif., Los Angeles—Ganahl Lumber Co., 830 East 1st St., plans woodworking plant and planing mill, South Park Ave. To exceed $100,000.

Calif., Los Angeles—J. Overell Co., c/o A. C. Martin, archt., Higgins Bldg., having plans prepared 4 story, 80 x 150 ft., brick warehouse, Santa Fe Ave.

Calif., Los Angeles—E. H. Rosenthal, Loew State Bldg., plans part 1 and 2 story, 250x325 ft., brick warehouse, Stephenson Ave. To exceed $150,000.

Calif., Oakland—National Lead Co. of California, 485 California St., San Francisco, having plans prepared addition to factory, 47th Ave. $40,000. Private plans.

Calif., San Francisco—C. E. Phillips & Co., 907 Bryant St., having plans prepared by O'Brien Bros., Inc., archts., 315 Montgomery St., 2-story, rein.-con. warehouse, Brannan and Gilbert Sts. $85,000.

Ont., Glencoe—C. C. Morrison, Fort Erie, plans flour mill, 200 bbl. daily capacity, here. $50,000.

Ont., Ottawa — Dominion Government, Ottawa, having plans prepared and soon takes bids rein. con. and brick printing bureau. $500,000. R. C. Wright, Dept. Pub. Wks., archt.

Ont., Timmins—Northern Canada Power Co. plans to install fourth hydro electric power plant on Mattagami River at Kenogamissee Falls, 5,000 hp., 70 ft. head, incl. transmission line, etc. Probably $750,000. J. H. Black, 36 Toronto St., Toronto, genl. mgr.

B. C., Port Alberni—C. J. V. Spratt, Rockland St., Victoria plans sawmill here. $250,000. Engineer and architect not announced.

BIDS DESIRED

Conn., Bridgeport—March 30, by Lockwood-Greene Co., archts. and engrs., 101 Park Ave., New York City, factory, brick, steel and concrete, plain foundation, for Jenkins Bros., 510 Main St. $250,000. Noted Nov. 23.

Pa., Pittsburgh—J. S. Long., archt., Citizens Savings Bldg., taking bids 3-story and basement, 54x110 ft. rein.-con. and brick garage, Webster Ave., for Webster Ave. Garage Co., care architect. $40,000.

Pa., Shinglehouse—Company c/o A. Hartman, engr., Arlington Hotel, taking bids silk mill, incl. main building 52 x 102 ft., engine room 24 x 30 ft. and boiler room 36 x 40 ft., 1 and 2 story. $175,000.

Pa., Williamsport—Winner-Franck Baking Co., Arch and West 3rd Sts., taking bids 2 story and basement, 48 x 126 ft. rein.-con. addition to bakery, Arch and West 3rd Sts. $50,000.

Md., Baltimore—March 17, by T. W. Pietsch, archt., Amer. Bldg., 7 story, 37 x 82 ft. factory, rein.-con. and brick, Holliday and Saratoga Sts., for Maryland Meter Wks., 224 North Holliday St. Noted Feb. 1.

Ala., Birmingham — April 1, by B. L. Wertheimer, pres. Amer. Laundry Co., 1720 2nd Ave., 2 story, 100 x 140 ft., brick laundry, 2nd Ave. and 17th St. $250,000. H. B. Wheelock, Steiner Bldg., archt.

Industrial Works (Continued)

Mich., Detroit — Bonnah & Chaffee, archts., 528 Farwell Bldg., taking bids and opens same about March 30, for 8 story and basement, 100 x 120 ft. rein.-con., brick and steel warehouse, plain foundation, for Cadillac Storage Co., c/o architects. $350,000. Noted March 8.

Mich., Detroit — Cowles & Mutscheller, archts., Chase Blk., Saginaw, taking bids and opens same about March 30, for 3 story and basement, 130 x 150 ft. rein.-con. and brick warehouse, plain foundation, 14th and Porter Sts., for Natl. Grocery Co., 125 West Larned St. $150,000.

Wis., Milwaukee—Leiser & Holst, archts., 105 Wells St., taking bids and opens same about March 19, 1 story, 90 x 122 ft., battery service building, brick and concrete, plain foundation, Van Buren St., for Wisconsin Magneto Co., 528 Milwaukee St. $45,000.

Wis., Milwaukee—F. E. Gray, archt., 133 2nd St., taking bids 5 story and basement, 52 x 100 ft., brick and concrete warehouse, plain foundation, Grand Ave. $150,000. Owner's name withheld.

Wis., Milwaukee—Milwaukee Wadding & Comfort Mills, 415 3rd St., taking bids 1 story, 50 x 160 ft., brick and concrete factory, plain foundation, Clybourn St. $40,000. Private plans. Noted Feb. 22.

Wis., Milwaukee—G. Rehm, archt., 1165 19th St., taking bids and opens same about March 19, 2 story, 42 x 72 ft., brick and concrete garage, plain foundation, Green Bay Ave. $40,000. Owners name withheld.

Wis., Milwaukee — McClymont Marble Co., 27th and Canal Sts., taking bids rebuilding 1 story, 60 x 250 ft. brick and steel factory, recently destroyed by fire. $65,000. Private plans.

Mo., Kansas City—Busche & Klapmeyer Ford Sales Co., 2800 East 31st St., taking bids 2 story and part basement, 50 x 113 ft., brick, steel and stone garage and salesroom, 30th and Prospect Sts. $40,000. R. E. Peden & Co., 945 New York Life Bldg., archts.

Tex., Snyder—G. Finberg Co. taking bids rein.-con. cotton compress building, plain foundation, West Bridge St. $150,000. Engineer and architect not announced.

CONTRACTS AWARDED

Me., Lewiston—Hill Mfg. Co., 30 State St., Boston, 7-story mill addition, brick and timber, plain foundation, at plant, here, to McNally Bldg. Co., 41 Concord St., Framingham, Mass. Archts. est. $200,000.

Me., Sanford—Sanford Mills, 5-story, 80 x236 ft. factory, brick and rein.-con., plain foundation, to Turner Constr. Co., 178 Tremont St., Boston. Archts. est. $300,000.

Mass., Cambridge — Elliott Addressing Machine Co., Albany St., 4 story and basement, 50 x 75 ft. addition to plant, rein.-con. and brick, Albany St., to S. C. Sperry Co., Inc., 299 Main St., $50,000.

Mass., South Boston (Boston, P. O.)—Boston Wharf Co., 259 Summer St., 5 story, 50 x 155 ft. warehouse, brick and concrete, to J. M. and C. J. Buckley, 164 Federal St., Boston. Archts. est. $400,000. Dwinnell-Wright Co., 311 Summer St., lessee. Noted March 1 under "Boston."

R. I., Providence—Mayflower Stores, Inc., West Exchange St., 3-story warehouse, brick and steel, plain foundation, West Exchange St., to C. S. Cunningham Co., Union Trust Bldg. Archts. est. $60,000.

Conn., Bridgeport—Salts Textile Mfg. Co., Kossuth St., 1-story, 60x200 ft. weave shed, 14 ft. high, brick and steel, to O. F. Burghart, 57 Kent Ave. Archts. est. $50,000.

N. Y., Brooklyn—C. Fleischer, c/o Slee & Bryson, archts. and engrs., 154 Montague St., 2 story, 100 x 150 ft., brick, steel and concrete garage, plain foundation, Newkirk Ave., by day labor. $40,000.

N. Y., Jamestown—Jamestown Chair Co., 20 Winsor St., brick and concrete factory addition, to Warren Constr. Co., Gokey Bldg. Archts. est. $50,000.

N. Y., Jamestown — Jamestown Upholstery Co., Inc., 308 Crescent St., 4 story, 77 x 80 ft. factory addition, to Jamestown Constr. Co., River St.

N. Y., Long Island City—Ditmar Ave. Development Corp., c/o Seelig & Finkelstein, archts. and engrs., 44 Court St., Brooklyn, two 1 story, rein.-con., brick and steel garages, 9th Ave., here, by day labor. $75,000 each.

N. Y., New York—W. M. Cory, archt. and engr., 30 Church St., 5 story, 127 x 215 ft., brick steel and concrete machine shop, plain foundation, 12th Ave. and 44th St., to Ettinger Contg. Co., 44 Court St., Brooklyn, for F. L. Smithe Machine Co., 11th Ave. and 21st St. Noted Feb. 22.

Pa., Carbondale—T. J. Mulholland, 22 6th Ave., 3-story, concrete, brick and steel plant in Simpson Sect., to R. D. Richardson Co., Connell Bldg., Scranton. Archts est. $100,000.

Pa., Clearfield—Clearfield Textile Co., 1 story and basement, 88 x 148 ft. concrete and brick mill, Turnpike Ave., to Ashley-Rishell, Market St. Archts. est. $60,000.

Pa., Phila.—Director Bureau Highways, City Hall, 1 and 2 story, 59 x 217 ft. and 58 x 104 ft. stable, blacksmith shop and office, brick and steel, plain foundation, 26th St. and Glenwood Ave., to Bowden Constr. Co., 1935 Chestnut St., $59,900. Noted March 8.

Pa., Wilkinsburg (Pittsburgh P. O.)—C. C. McKallip, Magee Bldg., Pittsburgh, 1-story, 100x140 ft. concrete, brick and steel garage, Penn Ave., to Inland Constr. Co., 5612 Penn Ave. Archts. est. $40,000.

Miss., Moss Point—Southern Paper Mills Inc., group of buildings from 1-5 story, 75 x 800 ft., steel, concrete and brick, concrete and pile foundations, incl. addition to power plant, to G. J. Glover, Whitney Bldg., New Orleans, La., $400,000.

La., Reserve—Godchaux Co. Inc., Chartres and Canal Sts., New Orleans, 4 story, rein.-con. and steel charfilter house, here, to Doullut & Williams, 816 Howard Ave., New Orleans. $250,000.

Tenn., Nashville—J. C. McQuiddy Printing Co., 5th Ave. N., 2 story and basement, brick and rein.-con. plant, 110 7th Ave., to Foster Creighton Co., 4th and 1st Natl. Bank Bldg., $85,000. Noted Feb. 1.

859 Items

in this issue breaks the record. Greatest previous mark for a single issue was 800, May 4, 1922

O., Cleveland — Lindsay Wire Weaving Co., 14025 Aspinwall Ave., 2 story and basement, 120 x 200 ft., brick, steel and concrete factory and office building, to J. C. F. Shafer, Erie Bldg. Archts. est. $200,000. Noted Feb. 15.

O., Cleveland—G. S. Rider & Co., archts. and engrs., Century Bldg., 6-story, 119x221 ft., brick and rein.-con. factory, 3803 Superior Ave., to Hunkin-Conkey Constr. Co., Century Bdlg., for W. S. Tyler Co., 3615 Superior Ave. Archts. est. $500,000. Noted March 1.

O., Mansfield — Barnes Mfg. Co., 701 North Main St., brick, steel and concrete foundry, to Zediker & Armstrong, Mansfield (street address not available). Archts. est. $100,000. Noted March 1.

Ill., Chicago—Bowman Dairy Co., 140 West Ontario St., 1 story, 200 x 278 ft., distribution station, rein.-con., brick and steel, 41st, 42nd and State Sts., to C. E. Clark Co., 69 West Washington St. Archts. est. $300,000.

Ill., Peru—V. A. Matteson, archt., 8 South Dearborn St., Chicago, 2 story and basement, rein.-con., brick and steel factory, here, to V. Jobst & Sons, Lehmann Bldg., Peoria, for Western Clock Co. Archts. est. $250,000. Noted Dec. 21.

Wis., Cudahy — Milwaukee Vinegar Co., 79 Buffalo St., Milwaukee, general contract 3 story, 56 x 109 ft. yeast house, brick, steel and concrete, plain foundation, to E. S. Steigerwald Co., 3603 Vliet St.; steel to Worden-Allen Co., Port Washington Ave., Milwaukee. Archts. est. $60,000. Noted Feb. 22.

Mo., St. Louis — Missouri Pacific Ry., Railway Exch. Bldg., 1 and 2 story, 147 x 202 ft., brick, steel and concrete machine shop, plain foundation, 3033 Chouteau Ave., to J. J. Wuellner & Son, Oak and Front Sts., Alton, Ill., $96,000. This corrects report in March 1 issue.

Tex., Dallas—Dallas Gas Co., 2016 Jackson St., 1 story, 50 x 40 ft., garage and workshop, brick, plain foundation, Logan St., to Inge Constr. Co., Swiss and Hawkins Sts., Engrs. est. $60,000. Noted Dec. 21.

Utah, Salt Lake City — Hustler Flour Mill, 6 story, 165 x 500 ft. flour mill, elevators and office building, rein.-con. and steel, 5th St. S., and 3rd St., W., to Burrell Eng. & Bldg. Co., 323 La Salle St., Chicago. Archts. est. $500,000.

Wash., Seattle — Banner Refining Co., Kohl Bldg., San Francisco, refinery, here, to J. J. Irwin, 801 Cabrillo St., San Francisco, $175,000. Private plans.

Ore., Oregon City—Crown Willamette Paper Co., 736 Pittock Blk., will build new plant and repair old one, by day labor. $250,000. A. J. Lewthwaite, mgr.

Ore., Portland—Pacific Fruit & Produce Co., East 2nd and Alder Sts., 2 story, 100 x 200 ft. warehouse and cold storage plant, rein.-con. and timber, plain foundation, to Bingham & McClelland, 416 Worcester Bldg., $100,000.

Calif., Emeryville—Doble Steam Motors Co., 714 Harrison St., San Francisco, (1st unit) 2 story, 82 x 240 ft. factory, rein.-con., Haven and Harlin Sts., to Lindgren Co., Monadnock Bldg., San Francisco, $90,000. Plans will be made for complete plant, providing for 3 additional stories to first unit and increase ground area to 240 x 400 ft. Noted March 8.

Calif., Los Angeles—Banner Refining Co., Kohl Bldg., oil refining plant, to J. J. Irwin, 801 Cabrillo St., San Francisco, $170,000.

Calif., San Francisco—See "Miscellaneous."

Ont., London — Orange Crush Bottlers Ltd., addition to plant, to J. Hayman & Sons, 432 Wellington St. Engrs. est. $60,000.

Ont., Ottawa—City let contract new concrete, brick and steel service building at civic hospital, Carling Ave. to Ross-Meagher, Albert St., $134,979.

T. H., Honolu—Amer. Can Co., Mills Bldg., San Francisco, Cal., will build 4 story rein.-con. addition to plant, here, by day labor, to exceed $150,000.

Buildings

PROPOSED WORK

N. H., Gorham — High School — School Com. plans 3 story, 75 x 150 ft., brick, plain foundation. To exceed $160,000. Engineer and architect not selected.

Mass., Boston — Apartment — Rotman & Hurwitz, c/o Silverman, Brown & Heenan, archts., 51 Cornhill, having plans prepared, six 3 story and basement, 80 x 300 ft., brick and stone, wood pile foundation. Commonwealth Ave. and Colonial Rd. $450,000.

Mass., Boston—Apartment—S. Rudnick, 11 Buckminster St., Brighton (Boston P. O.), plans 5 story, 75 x 95 ft., brick, Boylston St., $150,000; 5 story, 90 x 200 ft., brick, Boylston St., $400,000. Engineer and architect not selected.

Mass., Boston—Apartment—J. F. Rudnick, 701 Scollay Bldg., plans three 4 story and basement, 75 x 200 ft., brick, Pilgrim Rd. and Riverway. $350,000. Engineer and architect not selected.

Mass., Boston—Apartment—M. Rudnick, 40 Court St., plans two 5 story, 75 x 150 ft., brick, Boylston St. $200,000. Engineer and architect not selected.

Mass., Brookline (Boston, P. O.)—Apartment—C. H. Wolk, 110 Salem St., Malden, having plans prepared by Silverman, Brown & Heenan, archts., 51 Cornhill, five 3 story and basement, brick and stone, wood pile foundation, Green and Johns Sts. $300,000.

Mass., Dalton — High School — School Building Com., c/o F. G. Crane, Jr., chn., plans 2 story, brick, Main St. $150,000. Engineer and architect not selected.

Mass., Franklin — High School — School Bd. plans 3 story, brick and steel, Elm St. $200,000. Engineer and architect not announced.

Mass., Longmeadow — Clubhouse — Longmeadow Golf Club, care M. B. Reach, 229 Atwater Rd., Springfield, having preliminary plans prepared by Patterson King Corp., archts., 452 Lexington Ave., New York City, 2-story, field stone and stucco. $200,000.

Mass., Orange — High School — School Comn., plans 2 story and basement, 70 x 142 ft., brick and steel, Pleasant St. $150,000. Engineer and architect not announced.

Mass., Pittsfield — Hospital — Catholic Hospital Assn., c/o B. S. Conaty, chn., 414 North St., plans 3 story, brick, East St. $150,000. Engineer and architect not selected.

Mass., South Hadley — Dormitory — Mt. Holyoke College having plans prepared by Putnam & Cox., archts., 114 State St., Boston, 4-story, 100x145 ft. $300,000. Noted Feb. 8.

Mass., Springfield—Office and Warehouse —H. J. Perkins Co., 435 Dwight St., having plans prepared by Smith & Annable, archts. and engrs., 145 State St., and lets contract in spring, 6 story, 92 x 163 ft., rein.-con. and brick, Chestnut and Taylor Sts. $275,000.

Mass., Springfield—Temple—Masonic Hall Assn., Main and State Sts., having plans prepared by McClintock & Craig, archts., 33 Lyman St., 4-story, 100x160 ft., brick and steel, plain foundation, State St. $600,000. E. Blodgett, pres.

R. I., Cranston—City Hall—City plans City Hall, Park Ave. $500,000. D. D. Waterman, city clk. Engineer and architect not selected.

Buildings (Continued)

R. I., Providence—School and Chapel—St. Adelberts Roman Catholic parish having plans prepared by H. F. Ludorf, archt., 122 Main St., New Britain, Conn., 2 story, 70x 140 ft., brick and steel, Wells Ave. $150,-000. P. J. Switala, Wells Ave., pastor.

R. I., South Kingston—Hospital—South County Hospital Assn., c/o T. G. Hazard, Jr., treas., plans 2 or 3 story, brick. $150,000. Engineer and architect not selected.

Conn., Bridgeport—Professional—Bridgeport Medical Society, care S. M. Garlick, chn., 474 State St., having sketches made by Monks & Johnson, archts., 99 Chauncey St., Boston, 6-story, Broad and Gilbert Sts. $150,000.

Conn., Hartford—Apartment—J. M. Howard, 28 Lancaster Rd., West Hartford (Hartford P. O.), having plans prepared by Berenson & Moses, archts., 1026 Main St., 5 story, brick, stone and concrete, Capitol Ave. $250,000.

Conn., Hartford—Church—Swedish Evangelical Lutheran Church plans 52 x 110 ft., brick and artificial stone, granite foundation, Capitol Ave. and Hungerford St. $170,000. R. F. Barker, 43 Farmington Ave., archt. Bids by invitation only.

N. Y., Bayside—School—Bd. Educ., 500 Park Ave., New York, plans brick, steel and stone addition to P. S. 41, plain foundation, here. $500,000. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr.

N. Y., Belleville—School—Building Com. of Union Academy, plans modern school, to replace one recently destroyed by fire. $150,000-$175,000. W. K. Mott, Woolworth Bldg., Watertown, chn.

N. Y., Binghamton—Clubhouse—Bd. Dirs. Binghamton Club plans new clubhouse, 83 Front St. $150,000-$175,000.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, plans P. S. 210, brick, steel and stone, plain foundation, in vicinity of Park Pl. and Rochester Ave., here. $700,000. W. H. Gompert, Flatbush Ave. extension and Concord St., archt. and engr.

N. Y., Hornell—School—Bd. Educ. having plans prepared by Tooker & Marsh, archts., 101 Park Ave., New York City, new school to replace Lincoln School, recently destroyed by fire. $350,000.

N. Y., Endicott—Church—Building Com. First Baptist Church plans new church. $160,000-$180,000. G. B. Crane, chn.

N. Y., Ilion—School—Plans election to vote on $150,000 bonds for new school. Address R. B. Redway of Bd. Educ.

N. Y., Jamaica—School—Bd. Educ., 500 Park Ave., New York, having sketches made by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 116, brick, steel and stone, plain foundation, Wren Pl., here. $750,000.

N. Y., Jamaica—School—Bd. Educ., 500 Park Ave., New York, plans P. S. 214, brick, steel and stone, plain foundation, Conduit Ave., here. $700,000. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr.

N. Y., Kenmore—High School—Bd. Educ. having plans prepared by Kidd & Kidd, archts., 524 Franklin St., Buffalo, for school on Delaware Rd. $500,000. Noted Feb. 1.

N. Y., Lockport—City Hall—Plans new city hall, brick or similar material. $150,-000. Engineer and architect not announced.

N. Y., Mount Morris—High School—Bd. Educ. having plans prepared by C. A. Foote & Son, archts., Mount Morris, 2 story and basement, 200 x 200 ft., rein.-con., brick and stone, Chapel St. To exceed $200,000.

N. Y., New York—Bank—North Side Savings Bank, 3230 3rd Ave., soon takes bids 1 story, brick, stone and marble addition, plain foundation, 162nd St. and 3rd Ave. $225,000. Holmes & Winslow, 134 East 44th St., archts. Noted April 27.

N. Y., New York—Church and School—St. Joachims Roman Catholic Church, soon takes bids 75x100 ft., brick, steel and stone, plain foundation, Catherine St. $300,000. V. Januzzi, pastor. M. W. Del Guadio, 158 West 45th St., archt. and engr.

N. Y., Palmyra—School—Bd. Educ., soon takes bids brick, steel and stone, plain foundation. $250,000. Tooker & Marsh, 101 Park Ave., New York City, archts. and engrs. Noted May 11.

N. Y., Prattsburg—School—Bd. Educ. plans new school to replace one recently destroyed by fire. $250,000.

N. Y., Rome—High School—Bd. Educ. plans new high school. $500,000. W. B. Reid, mayor.

N. Y., Salamanca—Church—Holy Cross Polish Church plans 55 x 120 ft., brick, Broad St. A. Giehy, pastor. Engineer and architect not selected.

N. Y., Schenectady—Exchange—New York Telephone Co., Barrett St., plans brick, steel and concrete addition. $150,000. F. M. Cozzens, mgr.

N. Y., Schenectady—School—Bd. Educ. Union Free Dist. 12, plans Woodlawn School. $150,000. G. L. Jones, 4½ Albany Rd., pres.

N. Y., Waddington—Church—St. Marys Parish plans new church to replace one recently destroyed by fire. $150,000-$175,-000. J. J. Bent, pastor.

N. Y., Watertown—Hotel—Local Syndicate plans 4 or 5 story, Benedict and Stone Sts. $225,000-$250,000. Address G. J. Izay, Otis Bldg. Engineer and architect not selected.

N. J., Bogota (Hackensack, P. O.)—High School—Bd. Educ. opens bids about May 1, 2 story and basement, 125 x 125 ft., brick, fireproof construction. $225,000. C. V. R. Bogert, 167 Main St., Hackensack, archt. Guilbert & Bettelle, 2 Lombardy St., Newark, consult. archts.

N. J., Dover—Lodge—B. P. O. E. having plans prepared by J. J. Vreeland, archt., 16 West Blackwell St., for lodge. $150,000.

N. J., Somerville—Hospital—Bd. Trustees Somerville Hospital having sketches made by Crow, Lewis & Wick, archts. and engrs., 200 5th Ave., New York City, brick, steel and stone, plain foundation. $200,000. Noted Nov. 16.

Pa., Avella—School—School Bd. Independence Twp., having plans prepared by G. H. Schwan, Peoples Bank Bldg., Pitsburgh, 2 story and basement, 80 x 120 ft., $150,000.

Pa., Canton—Clubhouse, etc.—Bd. Directors Canton Country Club, purchased 45 acre site between here and Troy and plan to build 2 story and basement, 80 x 90 ft., brick and stone clubhouse, and golf course. $150,000.

Pa., Clairton—High School—Bd. Educ. plans high school. C. W. Bates, 77 12th St., Wheeling, W. Va., archt. $350,000.

Pa., Clairton—School—Bd. Educ. having plans prepared by C. W. Bates, archt., 77 12th St., Wheeling, W. Va. and Marshall Bldg., Cleveland, O., 2 story, concrete, brick and steel. $400,000.

Pa., Derry—High School—Bd. Educ. Derry Twp., having plans prepared by Batholomew & Smith, archts., Keenan Bldg., Pittsburgh, 1 story and basement, brick and tile, near here. $150,000.

Pa., Dubois—Y. M. C. A., c/o W. Roumsley, having plans prepared by Howard & Hatcher, archts., Deposit Natl. Bank Bldg., 1 and 3 story and basement, 50 x 90 ft. and 80 x 120 ft., brick and tile, Liberty Blvd. $150,000.

Pa., Ebensburg—Hospital—Comrs. Cambria Co., c/o H. T. Jones, controller, having plans prepared by W. R. Myton, archt., 1204 First Natl. Bank Bldg., Johnstown, 3 story, concrete, brick and steel. $250,000.

Pa., Greensburg—Bank and Office—First Natl. Bank, having plans prepared by H. O. Chapman, archt., 334 5th Ave., New York City, 7 story and basement, 80 x 96 ft., brick and granite. $200,000.

Pa., Greensburg—Store—A. E. Troutman Co., having plans prepared by Bartholomew & Smith, archts., 1702 Keenan Bldg., Pittsburgh, 6 story and basement, 62 x 95 ft., brick and steel, 2nd Ave. and Main St. $200,000.

Pa., Philadelphia—Apartment—L. H. Cahan & Sons, Walnut and Juniper Sts., soon takes bids 12 or 15 story, 176x230 ft. brick and stone, 19th and Chestnut Sts. $6,000,-000. Engineer and architect not selected.

Pa., Philadelphia—Apartment—Owner, c/o R. Beard, archt., Shubert Bldg., soon takes 4-story and basement, 55x108 ft., brick, steel rein.-con. and stone, plain foundation, 39th and Walnut Sts. $500,000.

Pa., Philadelphia—Theatre and Office—Stanley Co., c/o Hoffman-Henon Co., archts., Finance Bldg., soon takes bids 2-story and basement, rein.-con., brick and steel, plain foundation, 52nd and Chestnut Sts. $500,000.

Pa., Pittsburgh—Clubhouse—Da-Sevi-Di Country Club, Keenan Bldg., having plans prepared by B. H. Prack, archt., Keystone Bldg., 3 story and basement, 220 x 300 ft., rein.-con. and tile, Evergreen Rd., $300,000.

Pa., Pittsburgh—School—Bd. Educ., Fulton Bldg., having plans prepared 2-story and basement, 35x60 ft. and 4-story and basement, 60x120 ft., brick and stone, Hall St. $200,000. Private plans.

Pa., Pittsburgh—Synagogue—B'Nai Israel Congregation, c/o B. A. Licker, 5436 Jackson St., having plans prepared by Sharove & Friedman, archts., Berger Bldg., 1 and 2 story and basement, 327 North Negley St. $500,000.

Pa., Pottsville—Orphans Home—Roman Catholic Church, c/o A. Dougherty, cardinal, 18th and Race Sts., Phila., soon takes bids 3 story and basement, brick and steel, plain foundation, here. $300,000. P. A. Monaghan, 1713 Sansom St., Phila., archt.

Pa., Sayre—Nurses Home—Robert Packer Hospital plans brick home. $250,000 to $300,000. Engineer and architect not announced.

Pa., Scranton—School—Holy Rosary Roman Catholic Church, c/o R. C. Moyland, soon takes bids 3 story and basement, 80 x 150 ft., brick and steel, plain foundation. $175,000. E. G. Perot, 1211 Arch St., Phila., archt.

Pa., Torresdale (Philadelphia P. O.)—Convent—Sisters of Nazareth, c/o H. F. Ludorf, archt., 122 Main St., New Britain, Conn., having plans prepared 3-story, first unit of convent. $200,000.

Pa., Wilkes-Barre—Hotel and Theatre—Mallow Hotel Co., c/o R. H. Mallow, pres., plans 130x185 ft. concrete, brick and steel, South Franklin St. $1,000,000. Engineer and architect not announced.

Md., Baltimore—School—Mayor and City Council had plans prepared by Owens & Sisco, archts., Continental Bldg., 3 story, 260 x 295 ft., brick and steel, Calhoun, Carey and Baker Sts. $500,000. H. F. Doeleman, 507 North Charles St., engr.

D. C., Wash.—Hospital—Dist. Comrs. having plans prepared by A. L. Harris, archt., Dist. Bldg., constructing 2 wards to hospital buildings at Gallagher Hospital. $160,000.

W. Va., Charleston—Office—Kanawha Investment Co., soon lets contract 4 story and basement, 130 x 190 ft., rein.-con. and brick. $500,000. Carmichael & Millspaugh, 67 East Long St., Columbus, O., archts. Noted Aug. 17.

W. Va., Charleston—Store and Office—Summer St. Realty Co., c/o Knapp & Haviland, archts., Capitol Bank Bldg., having plans prepared 7-story and basement, 90x 90 ft., rein.-con., brick, title and stone, Summer St. $150,000.

W. Va., Princeton—College—Emory & Henry College having plans prepared by Wysong & Jones, archts., Odd Fellows Bldg., Charleston, 3-story and basement, 50x200 ft. and 50x75 ft., brick, stone and steel. $150,000.

N. C., Asheville—Hotels—G. Vanderbilt and Battery Park Hotel Companies having plans prepared by W. L. Stoddart, archt., Asheville, for above named hotels. $1.-500,000.

N. C., Charlotte—Courthouse, etc. City and Mecklenburg Co. plan 12 story courthouse, jail and office. $1,000,000. M. E. Boyer, Jr., Trust Bldg., archt. Noted Feb. 8.

N. C., Durham—Church—Trinity Methodist Church plans to rebuild church and Sunday school, recently destroyed by fire. $300,000. M. E. Newsome, Durham, interested. Engineer and architect not announced.

N. C., Raleigh—Library—North Carolina State College of Agriculture and Engineering plans library. $200,000. W. C. Riddick, pres. Engineer and architect not selected.

Ala., Birmingham—Store—J. Blach & Sons, 3rd Ave., plan 7 to 10 story, 140 x 150 ft., 4th Ave. and 19th St. $1,000,000. Engineer and architect not selected.

Ala., Birmingham—Theatre and Hotel—Southern Amusement Co., Dallas, Tex. (street address not available), plans 8 to 12 story, 150 x 190 ft., 5th and 19th Sts. $1,500,000. Engineer and architect not announced.

Tenn., Nashville—Institution—State will sell $250,000 bonds for erecting and equipping deaf and dumb institute. L. W. Pope, dir. institutions.

O., Akron—Church—Arlington St. Baptist Church plans new church. $150,000.

O., Canton—Parish House—First Methodist Episcopal Church, Cleveland Ave. and Tuscarawas St. W., plans 4 story, parish house, Cleveland Ave. S. W. $150,000. A. E. Day, pastor. Engineer and architect not selected.

O., Cincinnati—School—Bd. Educ., 511 West Court St., had sketches made by A. L. Fecheimer, archt., 325 East 4th St., school, Pintree and Waverly Aves. $250,-000. W. E. Bodenstein, 2nd Natl. Bank Bldg., engr.

O., Cleveland—Apartments—W. B. Gongwer, Federal Bldg., having preliminary plans prepared by F. W. Ball, archt., Hanna Bldg., three 3 story and basement, brick and timber, on 140 x 180 ft. site, East 132nd St. near Moreland Circle. $200,000.

O., Cleveland—Apartment—M. L. and I. G. Kohn, 722 Natl. City Bldg., plans 3 story and basement, 100 x 100 ft., brick and steel, East 114th St. and Superior Ave. $150,000. Engineer and architect not selected.

O., Cleveland—Commercial, etc.—L. O. Skeel, 7016 Euclid Ave., having plans prepared by F. D. Skeel, archt., 7016 Euclid Ave., 85 x 120 ft., commercial building and

Buildings (Continued)

102 x 165 ft. service building, 1 and 2 story and basement, brick, steel and concrete, 1111 Euclid Ave. $200,000.

O., Cleveland—Sunday School and Recreation—Pearl Rd. Methodist Episcopal Church, 3528 Muriel Ave., conducting compaign to raise $150,000 for 2-story, brick, steel and concrete, Pearl Rd. W. H. Nicklas, 1910 Euclid Ave., archt.

O., Cleveland Heights (Warrensville, P. O.)—School—Bd. Educ., 1005 Lee Rd., plans brick, steel and concrete, in Idlewood Village School Dist. $150,000. F. C. Warner, Hippodrome Annex, Cleveland, archt.

O., Cleveland Heights (Warrensville, P. O.)—School—St. Anns Church, c/o J. Powers, pastor, 2115 Coventry Rd., having plans prepared by G. H. Ingraham, archt., 21[illegible] B. F. Keith Bldg., Cleveland, 3 story and basement, 65 x 192 ft., brick, steel and concrete, Coventry Rd. near Cedar Rd. $250,000.

O., Columbus — Office — M. L. Yuster, Parkview and Broad Sts., having plans prepared by F. L. Packard, archt., 16 East Broad St., 8 story and basement, 80 x 96 ft., brick, concrete and terra cotta, 4th and Broad Sts. $500,000.

O., East Cleveland (Cleveland P. O.)—Apartment—L. Cahn, 10615 Grantwood Ave., Cleveland, having plans prepared by A. F. Janowitz, archt., Permanent Bldg., Cleveland, 3 story and basement, brick and timber, on 50 x 200 ft. site, Euclid Ave. and Stanwood Rd., here. $150,000.

O., Girard—High School—Bd. Educ. having plans prepared by Miller & Son, archts., 408 Dollar Bank Bldg., Youngstown, brick high school. $280,000. Noted Jan. 25.

O., Youngstown—Church, etc.—Stanislaus Parish plans brick and steel, church, school and community hall, Williamson Ave. $150,000. J. M. Zeglen, pastor. Engineer and architect not announced.

O., Youngstown—Clubhouse—Youngstown Aerial 213 F. O. E. had preliminary sketches made by Stanley & Scheibel, archts., Wick Bldg., 4 story, West Rayen Ave. and Holmes St. $200,000.

Mich., Battle Creek—Church and Office—First Baptist Church, 119 Fountain St., plans 6 story, rein.-con., brick and stone, Main St. $300,000. G. E. Merrill, 23 East 26th St., New York City, advisory archt. Noted Jan. 4.

Mich., Detroit—Apartment—Abraham & Wood, archts., 705 Kresge Bldg., preparing plans 4 story and basement, 37 x 159 ft., brick and steel, plain foundation, Davenport St. $200,000. Owner's name withheld.

Mich., Detroit—Clubhouse—J. Kasurin, archt., 512 Empire Bldg., preparing plans 4 story and basement, 90 x 150 ft. brick, steel and stone, plain foundation, West Side. $175,000. Owner's name withheld.

Mich., Detroit—College—College of Immaculate Heart, St. Marys College, Monroe, having plans prepared by D. A. Dohlen & Son, archts., Indianapolis, Ind., 3 story, 165 x 350 ft. rein.-con., brick, steel and stone, plain foundation, Palmer Blvd. and Wyoming Ave., here.

Mich., Detroit—Hotel and Clubhouse—Detroit Harmonie Society, Grand River Ave. and Center St., plans 18 story, 60 x 100 ft. rein.-con., brick and steel, plain foundation. Engineer and architect not selected.

Mich., Detroit—Office—S. J. Murphy Co., 1330 Penobscot Bldg., plans 25 story and basement, 120 x 150 ft. rein.-con., brick and steel, Fort and Griswold Sts. Architect and engineer not selected.

Mich., Detroit—Temple and Clubhouse—Elks Lodge 34, Lafayette Blvd. and Cass Ave., having plans prepared 10 story and basement, 60 x 145 ft. rein.-con., brick and steel, plain foundation, Lafayette Blvd. and Cass Ave. Engineers and architects name withheld.

Mich., Flint—School—Bd. Educ. having plans prepared by Malcomson, Higginbotham & Palmer, archts., 405 Moffat Bldg., Detroit, 3 story and basement, 175 x 350 ft. rein.-con., brick and steel, plain foundation. $750,000.

Mich., Grand Rapids—Apartment—Owners, c/o F. Hollingsworth, 18 Munroe St., having plans prepared by Ohrenstein & Hild, archts., 232 Erie St., Chicago, 3-story and basement, brick and stone, plain foundation, Fisk Lake. $6,000,000.

Mich., Grand Ledge—High School—Bd. Educ. having plans prepared by J. Churchill, archt., Oakland Bldg., Lansing, 2 story, rein.-con., brick, steel and stone, plain foundation. $160,000.

Mich., Highland Park (Detroit P. O.)—Nurses' Home—Highland Park General Hospital, Glendale and Lincoln Aves., plans 3 story and basement, steel rein.-con. and brick, plain foundation, Glendale Ave. $150,000. Engineer and architect not selected.

Mich., Pontiac—Apartment—Abraham & Wood, archts., 705 Kresge Bldg., Detroit, preparing plans 3 story and basement, 100 x 150 ft., brick and steel. $225,000. Owners name withheld.

Mich., Sault Ste. Marie — Hospital — Chippewa Co. Memorial Hospital Assn., having plans prepared by C. Arnstzen, archt., 341 West Lake St., Minneapolis, Minn., and 716 Ludington St., Escanaba, 3 story and basement, rein.-con., brick, stone and tile. $200,000.

Mich., South Haven—Hotel—L. A. Shuaper, South Haven, having sketches made by Nichol, Scholer & Hoffman, archts., Lafayette, Ind., 6-story, basement and subbasement, rein.-con., brick, stone and terra cotta, Phoenix St. $300,000.

Ill., Chicago—Apartment—R. W. Matteson, 140 North Dearborn St., having plans prepared by P. F. Olsen, archt., 720 Cass St., 4 story, 125 x 250 ft., rein.-con., brick and steel, Hampden and Lehman Sts. $500,000.

Ill., Chicago — Apartment — Silverman & Goldberg c/o Loewenberg & Loewenberg, archts., 111 West Monroe St., having plans prepared apartment, Hyde Park and Dorchester Ave. $1,000,000.

Ill., Chicago—Store, Office and Dance Hall—Plotke & Grosby, 2532 North Clark St., plans 2 story, rein.-con., brick and steel, Wells and North Park Sts., $500,000. Engineers and architects name withheld.

Ill., Chicago—Theatre, Store and Office—R. Levine, 6951 South Green St., plans 2 story, 100 x 160 ft., rein.-con., brick and steel, 22nd St. near Central Park. $200,000. E. P. Rupert, 19 South La Salle St., archt.

Wis., Green Bay—Church—Presbyterian Congregation, 210 South Ashland St., having plans prepared by W. E. Reynolds, archt., Roosevelt St., 2 story, 80 x 105 ft., brick and tile, plain foundation, Howard Ave. $150,000. H. Easly, pastor.

Wis., Janesville—Theater—H. F. Jones, 107 North Franklin St., plans 2 story and basement, 80 x 150 ft., brick, steel and concrete, plain foundation. $150,000. Engineer and Architect not selected.

Wis., Kenosha—School—St. James Congregation, 305 Sheridan Rd., having plans prepared by Lindl, Lesser & Schutte, archts., Grosvenor Bldg., Kenosha, and 82 Wisconsin St., Milwaukee, 2 story and basement, 70 x 118 ft. and 60 x 60 Yt., brick, tile and concrete, plain foundation, Sheridan Rd. $150,000. R. J. Smith, pastor. Noted Jan. 11.

Wis., Madison — Exchange — Wisconsin Telephone Co., 16 South Carroll St., plans 3 story addition, also reconstructing existing pole, aerial cable, wire ground conduits and underground plant. $600,000. J. R. Brohany, mgr. Engineer and architect not selected.

Wis., Madison—Hotel—Hotel Wisconsin Realty Co., 86 Michigan St., Milwaukee, having plan prepared by Holabird & Roche, archts., 104 South Michigan Ave., Chicago, 8 story and basement, 130 x 180 ft., brick and concrete, plain foundation, Fairchild and West Washington Sts. $900,000.

Wis., Madison—Pharmacy—University of Wisconsin, Administration Bldg., plans brick and steel, plain foundation. $250,000. M. E. McCaffery, secy. Engineer and Architect not selected.

Wis., Milwaukee—Business—M. Tullgren & Sons Co., archts., 425 East Water St., preparing plans 3 story and basement, 100 x 100 ft., brick, tile and concrete, plain foundation, 3rd St. $150,000. Owners name withheld.

Wis., Shorewood (Milwaukee P. O.)—Theatre and Business—Kel-Nau Investment Co., 86 Mason St., having plans prepared by Backes & Pfaller, archts., 216 West Water St., 3 story and basement, 105 x 120 ft., brick and concrete, plain foundation, Farwell Ave. $175,000.

Ia., Cedar Rapids—Hospital—St. Lukes Hospital Assn., S. C. Armstrong, chn. building com., 2nd St. and 2nd Ave. E., plans 4 story and basement, rein.-con., brick, tile and stone addition, 12th St. and A Ave. E. $150,000.

Kan., Pittsburg—Hotel—Company being organized plans hotel at 4th St. and Bway. $300,000-$400,000. Address Chamber of Commerce. Engineer and architect not selected.

Kan., Wellington — High School — Bd. Educ. having plans prepared by Williamson & Co., archts., 312 Central Natl. Bank Bldg., Topeka, 3 story and basement, rein.-con., brick, stone and steel. Election soon to vote on $300,000 bonds.

Neb., Grand Island—High School—Bd. Educ. soon takes bids 2 story and basement, 63 x 150 ft., brick and stone. $150,000. Kirschke & Crocker, Grand Island, archt.

S. D., Milbank—School Community—Municipality having plans prepared by Hugill & Blatherwick, archts., Sioux Falls, and C. F. Tweed, engr., 515 Metropolitan Bank Bldg., Minneapolis, Minn., 2 story and basement, concrete and brick. $150,000.

Mo., Chillicothe—High School—March 16, to vote on $300,000 bonds for high school. Engineer and architect not selected.

Mo., Columbia—Armory—Missouri University had plans prepared by Jamieson & Spearl, archts., Arcade Bldg., St. Louis, 2 and 3 story, 130 x 350 ft., rein.-con. and stone, plain foundation, on campus.

Mo., Kansas City—Apartment Hotel—W. Jewel, Jr., 227 Rialto Bldg., had plans prepared by Wilkinson & Crans, archts., 608 Interstate Bldg., 5 story and basement, 150 x 168 ft., 4550 Warwick Blk. $400,000.

Mo., Kansas City—Depot—Interurban Central Station Co., Scarritt Bldg., having plans prepared by Wright & Wright, archts., 1st Natl. Bank Bldg., and soon takes bids 10 story and basement, 130 x 200 ft., rein.-con., brick, stone or terra cotta, 10th and McGee Sts. $3,000,000.

Mo., Kansas City—Fire House—Plans new fire house, fire alarm equipment, underground cables and equipment. $216,420.

Mo., Kansas City—Office—Kansas City Life Insurance Co., Rialto Bldg., having preliminary plans prepared by Wight & Wight, archts., 1st Natl. Bank Bldg., 3 story and basement, Bway. and Armour Blvd. $500,000. Noted Jan. 25.

Mo., Kansas City—Y. W. C. A. having plans prepared by Croft & Boerner, archts., 1006 Marquette Ave., Minneapolis, Minn., brick, steel and rein.-con. $175,000.

DAM—ILLINOIS

Following are lowest three bids opened by G. R. Miller, dir. Dept. Pub. Wks. & Bldgs., Springfield, Feb. 28, for Starved Rock Lock and Dam, Illinois Waterway, Contr. No. 2, La Salle Co., (A) Byrne Bros. Constr. Co., 358 East 115th St.; (B) C. E. Carson Co., 601 St. Clair St.; Green & Sons Co., 705 Tower Bldg.; contractors all of Chicago. The unit bids were as follows:

	A	B	C
Clearing (lump sum)	$1,000.00	$1,000.00	$7,500.00
Cofferdam, pumping, etc. (lump sum)	80,000.00	150,000.00	343,350.00
409,000 cu.yd. excavation	1.10	1.85	1.50
6,000 sq.ft. channeling	.60	.75	1.00
1,000 cu.yd. embankment	1.50	.50	1.00
1,000 sq.yd. stone paving	1.75	1.00	3.00
50,000 ft. b.m. pine and fir timber	75.00	100.00	100.00
10,000 ft. b.m. white oak timber	150.00	100.00	200.00
387,000 lb. structural steel	.10½	.10	.10
60,000 lb. steel castings	.16½	.15	.15
60,000 lb. steel castings	.16½	.14	.14½
36,000 lb. gray iron castings	.12½	.10	.10
36,000 lb. gray iron castings	.12	.09	.09
116,000 lb. steel forgings	.30	.25	.20
96,000 cu.yd. concrete	5.00	6.75	8.50
162,000 lb. metal reinforcement	.06	.05	.05
5,000 lin.ft. vitrified pipe, 6 in. diameter	.50	.50	1.00
3,000 lb. pipe railing and w.s. pipe	.40	.50	.30
2,000 lin.ft. fibre conduit, 3 in. diameter	.66	.25	.50
3,700 lin.ft. gravel road	2.00	2.00	2.00
1 30-in. sluice gate	445.00	500.00	350.00
1 6-in. gate valve	45.00	50.00	50.00
1 6-in. flap valve	15.00	50.00	20.00
250 lb. bronze, nuts, etc.	.45	1.00	.50
Extended totals completing work in two years	$1,309,442	$1,717,880	$1,919,795
Extended totals completing work in three years	$1,135,693	$1,668,800	$1,889,795

Buildings (Continued)

Mo., Milan—Court House—Sullivan Co. plans election to vote on $200,000 bonds for court house.

Mo., Normandy—Clubhouse—North Hill Country Club, United Home Builders Bldg., St. Louis, had plans prepared by T. P. Barrett Co., archts., 1559 Arcade Bldg., St. Louis, 1 and 2 story, 75 x 400 ft., brick and stucco, Natural Bridge Rd., here. $300,000.

Mo., Pleasant Hill—High School—Voted $150,000 bonds and having plans prepared by W. H. Sayler & Co., archts., 306 Mutual Bldg., Kansas City, rein.-con., brick and stone.

Mo., St. Louis—Office—McKinley Traction System, Champaign, Ill., (owner and archt.) preparing plans 14 story, 75 x 135 ft., rein.-con. and brick, concrete pile foundation, 12th Blvd., here. $1,000,000.

Mo., University (St. Louis P. O.)—Theatre, Store and Apartment—University Co., c/o W. A. Hays, Central Natl. Bank Bldg., soon lets contract 3-story, 110x193 ft., rein.-con., brick and steel, plain foundation, Delmar Blvd. $400,000. H. Newhouse, 4630 Prairie St., Chicago, archt. Noted Dec. 21.

Tex., Austin—University—University of Texas, Bd. Regents, plans large improvement program incl. new buildings here and at medical branch, Galveston. H. M. Green Co., North Texas Bldg., Dallas, archts. $2,500,000 loan available.

Tex., Dallas—Office—M. H. Thomas, Cotton Exch., had plans prepared by A. F. Korn, archt., Andrews Bldg., 7 story and basement, 50 x 174 ft., brick and rein.-con., plain foundation, Wood and Akard Sts. $150,000.

Tex., Dallas—Schools—April 3, to vote on $1,000,000 bond issue for schools. G. D. Fairtrace, city engr.

Tex., Greenville — Office — Fraternal Aid Union takes bids in summer 5 story and basement, rein.-con. and brick, plain foundation, $200,000. Engineer and architect not announced.

Tex., Houston—Hospital—City and Harris Co., having plans prepared by W. A. Dowdy, city archt., rein.-con. and brick, plain foundation, 200 bed capacity. $200,000.

Okla., Norman — Church — University Methodist Episcopal Church having plans prepared by R. H. Hunt, archt., James Bldg., Cnattanooga, Tenn., and soon receives bids 3 story and basement, 126 x 175 ft., bedford stone. $300,000. L. S. Barton, pastor.

Okla., Tulsa — Business — Jansen-Upp-Meyer Mfg. Co., 11 North Cheyenne St., plans 4 story and basement, 100 x 140 ft., rein.-con. $150,000. Engineer and architect not selected.

Colo., Denver—Office—Capitol Life Insurance Co., Colorado Theatre Bldg., plans office building, probably 2 story and basement, East 16th Ave. between Sherman and Grant Sts. $400,000. Engineer and architect not selected.

Utah, Salt Lake City—Office—See "Industrial Works."

Ore., Portland—Hotel—P. Wessinger, 555 Davis St., having plans prepared by C. Lind, archt., 208 Artisan Bldg., and takes bids about April 29, 12 story, 145 x 169 ft. hotel, and 3 story, 62 x 110 ft. garage, rein.-con., and terra cotta, plain foundation, Portland Heights. $1,000,000.

Calif., Gridley — High School — Gridley Union High School Dist. plans for vote on $200,000 bonds for high school. Engineer and architect not selected.

Calif., Los Angeles—Apartment—E. C. Comer, c/o Walker & Eisen, archts., Pacific Finance Bldg., having plans prepared 8 story and basement, rein.-con., Hollywood St. near Hudson Ave. $350,000.

Calif., Los Angeles — Apartment — C. Morris, c/o Walker & Eisen, archts., Pacific Finance Bldg., having plans prepared 13 story and basement, rein.-con. and brick, Catalina and Wilshire Sts. To exceed $1,000,000.

Calif., Los Angeles—Apartment—T. Harrison, Garland Bldg., having plans prepared by Allen & Hillier, archts., Union Bank Bldg., 3-story, brick, 9th and Hoover Sts. $150,000.

Calif., Los Angeles—Office—Hill Street Building Co., c/o E. Bergstrom, archt., Citizens Natl. Bank Bldg., having plans prepared 5 story, fireproof addition, Hill and 6th Sts. To exceed $300,000.

Calif., Los Banos—Hotel and Store—Business men all members of Chamber of Commerce having preliminary plans prepared by E. J. Kump Co., archts., Rowell Bldg., Fresno, 4 story, brick and concrete. $150,000.

Calif., Modesto—Schools—Modesto Grammar School Dist. will receive bids March 19, two brick grammar schools, $60,000 each, also alterations and additions to present structure, $55,000. J. J. Donovan, 1916 Bway., Oakland, archt. Noted Dec. 7.

Calif., Montebello — School — Montebello High School Dist. having plans prepared by Jeffry & Schaefer, archts., Kerchkoff Bldg., Los Angeles, group of buildings, brick. $300,000. Noted Oct. 19.

Calif., Pasadena — Club — American Legion conducting campaign to raise $200,000 for 4 story. N. J. Shupe, chn.

Calif., Piedmont — Schools — Piedmont School Dist., soon takes bids Junior High and Primary Schools, each 2 story and 2 story, rein.-con. $150,000 and $35,000 respectively. W. H. Weeks, 369 Pine St., San Francisco, archt.

Calif., Redondo—High School—Redondo Union High School Dist. having plans prepared by Allison & Allison, archts., Hibernian Bldg., Los Angeles, brick. To exceed $150,000. Noted Feb. 15.

Calif., San Francisco—Apartment—W. Groall, c/o W. Knowles, archt., Hearst Bldg., having plans prepared 8 story, rein.-con., Chestnut and Larkin Sts. $400,000.

Calif., San Francisco — Hospital — A. Abrams, 2151 Sacramento St., had plans prepared by M. I. Schwartz, archt., Nevada Bank Bldg., 9 story and basement, 56 x 137 ft., rein.-con. and steel, Sutter St. near Larkin St. $500,000.

Calif., Salinas—Schools—City plans to vote on $150,000 bonds for 2 or more grammer schools. A. Walter, supt. of schools.

Calif., Santa Barbara—Theatre, Office and Store—J. Y. Park, et al., c/o Soule, Murphy & Hastings, archts., 1206 State St., having plans prepared 4 story, fireproof, State St. $225,000.

Calif., Santa Clara—Gymnasium—University of Santa Clara having plans prepared by J. J. Donovan, archt., 1916 Bway., Oakland, 65 x 100 ft., gymnasium and 40 x 100 ft. swimming tank, probably concrete and tile. To exceed $150,000.

Calif., South Pasadena—School—March 30, to vote on $195,000 bonds for new school buildings.

Calif., Stockton — School — City having plans prepared by C. H. Young, archt., Commercial and Savings Bank Bldg., first unit, 24 classroom and auditorium, brick, Pilgrim St. $70,000. Ultimate cost, $150,000.

Calif., Taft—High School—Taft Union High School Dist., having revised plans prepared by W. H. Weeks, archt., 369 Pine St., San Francisco, group of buildings. Former bids rejected. Noted March 1.

Que., Montreal — Office — Credit-Canada Ltd., 145 St. James St., had plans prepared by U. J. Asselin, archt., 332 Bleury St., 10 story, 89x100 ft., St. Lawrence St. $500,000.

Ont., Hamilton—Collegiate—Bd. Educ. plans concrete, brick and steel. $250,000. S. H. Kent, city clk. Engineer and architect not selected.

Ont., Hamilton—Hospital—Hamilton General Hospital having plans prepared by Witton & Walsh, archt., Hamilton Provincial Loan Bldg., concrete, brick and steel addition. $150,000.

Ont., Hamilton—School—Bd. Educ. having plans prepared by Hutton & Souter, archts., Bank of Hamilton Bldg., 2 or 3 story and basement, 12 room, concrete, brick and steel, east end of city. $200,000. Noted Feb. 8.

Ont., Kingston—Library—Queens University soon takes bids new library. $370,000. R. B. Taylor, principal.

Ont., Oshawa—School—Bd. Educ. receiving competitive sketches for 2-story and basement, 12 room, concrete, brick and steel, Centre St. $200,000.

Ont., Ottawa—Fire Stations—Bd. Control takes bids in early spring, four new fire stations. $200,000. A. D. Macallum, city engr. Architect not selected.

Ont., Port Arthur—Collegiate—Bd. Educ. plans to construct new building or addition to present one, concrete, brick and steel. $200,000. Engineer and architect not selected.

Ont., St. Thomas—Hospital—City Council plans concrete, brick and steel memorial hospital. $150,000. W. B. Doherty, clk. Engineer and architect not selected.

Ont., Toronto—Apartment—C. C. Dunn, 335 Gerard St. E., plans 5 story and basement, brick, Gerard St. $150,000. Engineer and architect not appointed.

Ont., Toronto—Office—H. L. Bowles, 7 King St. E., having plans prepared by N. A. Armstrong, Ltd., archts., 7 King St. E. 7 story and basement, concrete, brick, steel tile and terra cotta. $750,000.

Ont., Toronto—Office—Gelber Bros., 217 Richmond St. W., plans 6 story and basement, 50 x 100 ft. brick and steel. $200,000. Engineer and architect not selected.

Ont., Woodstock—School—Bd. Educ. plans 2 story and basement, 8 room concrete, brick and steel addition. $150,000. Engineer and architect not selected.

BIDS DESIRED

Mass., Taunton—School—March 22, by G. A. Burt, chn. Public Property Com., 2 story and basement, 85 x 160 ft., rein.-con. and brick, plain foundation, Middleboro Ave. $200,000. McLaughlin & Burr, 88 Tremont St., Boston, archts.

Conn., Bridgeport—School—Bd. Educ. receiving bids 2 story and basement, 20 room addition, brick and steel, plain foundation, Tesiny Ave. $150,000-$170,000. F. A. Cooper, 1024 Main St., archt. Noted July 13.

Conn., Fairfield—High School—March 17, by School Comrs., 2 story and basement, brick and steel, plain foundation, Post Rd. (first unit). $160,000. O. C. S. Ziroli, 211 State St., Bridgeport, archt. Noted June 22.

N. Y., Delanson—School—March 24, by Bd. Trustees Union School Dist. 1, Duanesburgh, at office of E. G. Atkinson, archt., 426 State St., Schenectady, new school here. To exceed $150,000.

N. Y., New Rochelle—Apartment—April 15, by H. Tanenbaum, archt., 530 Main St., 4 story, brick, Main and Center Sts., for Dietch and Disesa, c/o architect. $300,000.

N. Y., New York—School—March 27, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, general construction P. S. 11, West 21st St., here, for Bd. Educ., 500 Park Ave.

N. J., Morris Plains—Dining Hall and Kitchen—April 2, by B. G. Lewis, comr. Institutions and Agencies, State House, Trenton, 4 story, 47 x 120 ft., rein.-con., brick and steel, at State Hospital for Insane, here. $216,000. A. B. Mills, State Office Bldg., Trenton, archt.

N. J., West Orange—High School—March 26, by Bd. Educ., 3 story, 105 x 230 ft., brick and steel, Gaston St. Guilbert & Bettelle, 540 Broad St., Newark, archts.

Pa., Phila.—School—March 20, by Bd. Educ., 3 story and basement, 148 x 171 ft. rein.-con., brick and steel, plain foundation, Cottage and Gillespie Sts. $500,000. Private plans.

Pa., Williamsport—Lodge and Store—Lodge of Eagles, Pine and North Sts., taking bids and opens same about April 1, 3 story and basement, 90 x 115 ft. brick, steel and rein.-con., Pine and North Sts. $150,000. F. A. Rianhard, Masonic Temple, archt.

O., Columbus—Medical Science—April 10, by C. E. Steele, secy. Bd. Trustees Ohio State University, 4 story and basement, 75 x 145 ft., brick, stone and concrete, on campus. J. N. Bradford, Ohio State University, archt. Noted March 8.

O., Dayton—Office and store—Schenck & Williams, archts., Winters Bank Bldg., taking bids and open same about March 20, 4 story, and basement, 75 x 100 ft., rein.-con., brick and terra cotta, North Main St., for Schwind Realty Co. $185,000. Noted June 29.

O., Marysville — Cottages — April 4, by Dept. Pub. Welfare, 9th and Oak Sts., Columbus, 2 story and basement, 28 x 150 ft. cottage $150,000, 2 story and basement, 22 x 44 ft. superintendents cottage $35,000, 1 story, 48 x 60 ft. power plant with 175 ft. brick chimney on approximately 200 cu.yd. concrete for base, $20,000, all foregoing rein.-con. and brick, at Reformatory for Women, here. R. S. Harsh, Ohio-Hartman Bldg., Columbus, archt.

O., New Osborn—School—March 19, by D. S. Lynn, clk. Bath Twp. Consolidated School Dist., Fairfield, 2 story and basement, rein.-con. and brick, Central Ave., here. $200,000. Walker & Norwick, 1301 Amer. Bldg., Dayton, archts.

Mich., Ann Arbor—Physical Science—March 26, by J. A. Shepherd, c/o University of Michigan, 4 story and basement, 60 ft. high above grade, 136 x 146 ft. rein.-con., brick and stone, plain foundation, East University Ave. A. Kahn, 1000 Marquette Bldg., Detroit, archt.

Mich., Kalamazoo — Library — H. H. Turner, archt., 923 Michigan Trust Bldg., and V. E. Theband, archt., (street address not available), both Grand Rapids, taking bids and open same about March 30, 2 story and basement, rein.-con., brick, steel and stone, plain foundation, for Western State Normal School. $230,000.

Ill., Chicago—Apartment—F. Becklanberg, 29 South La Salle St., taking bids 3 story, rein.-con., brick and steel, 5625-39 Kenmore Ave. $325,000. R. F. France, 155 North Clark St., archt.

Buildings (Continued)

Ill., Chicago—Apartment—P. F. Olsen, archt., 127 North Dearborn St., receiving bids 2 story, 108 x 153 ft., rein.-con., brick and steel, Cornelia and Pine Grove Aves., for W. Pickel, c/o architect. $250,000. Noted Feb. 15.

Ill., Evanston—Apartment—S. M. Seator, archt., 19 South La Salle St., Chicago, receiving bids 3 story and basement, 100 x 130 ft., rein.-con., brick and steel, Reba Pl. near Sherman Ave. $150,000. Owner's name withheld.

Wis., Milwaukee — Temple — March 29 (change of date), by R. Messmer & Bros., archts., 221 Grand Ave., 9 story and basement, 110 x 145 ft., brick and concrete, Mason and Marshall Sts., for Milwaukee Elks Lodge, 763 North Water St. $1,000,000. Noted March 8.

Ia., Fairfield—School—March 31, by Bd. Educ., high school addition and grade school, each 2 story and basement, rein.-con., brick, tile and stone. J. W. Dole, secy. W. Gordon, 319 Hubbell Bldg., Des Moines, archt. Noted Jan. 18.

Ia., West Union—Courthouse—March 23, by Fayette Co., 3 story and basement, 90 x 116 ft., rein.-con., brick, tile and stone. $250,000. J. Ralston, L & J Bldg., Waterloo, archt. Noted Dec. 14.

Minn., Duluth—Hospital—March 22, by F. A. Cokefair, chn. Building Com., Duluth Hospital Assn., 1st St. and 9th Ave. E., 6 story and basement 65 x 175 ft., 32 x 145 ft. and 35 x 162 ft. additions, rein.-con. and brick. $800,000. Schmidt, Garden & Martin, 104 South Michigan St., Chicago, archts. German & Jenssen, Exch. Bldg., associated archt. Noted Jan. 4.

Kan., Topeka—Hotel—Topeka Hotel Co. taking bids on structural steel for 10 story and basement, 100 x 150 ft., brick, stone and rein.-con., 7th and Jackson Sts. $600,000. T. W. Williamson & Co., archts., 312 Central Natl. Bank Bldg., completing plans.

Neb., Columbus—Hospital—St. Marys Hospital, receiving bids 4 story and basement, 45 x 150 ft. main building, 2 story and basement, 36 x 49 ft., dormitory and 1 story and basement, 50 x 90 ft., chapel, rein.-con., brick and stone. $250,000. C. Wurdeman Co., 313½ 13th St., archt.

Mo., Kansas City — Institute — Deaner Dental Institute, 3520 Bway., taking bids 4 story and basement, 52 x 126 ft., rein.-con., brick and steel, Hunter and Baltimore Aves. A. F. Adams, 600 Walsix Bldg., archt. Noted Feb. 8.

Mo., St. Louis—Theatre and Store—W. Goldman, 6343 Waterman Ave., taking bids and opens same about March 20, 126 x 198 ft. (equal to 4 story) rein.-con., brick and steel, concrete pile foundation, Grand Blvd. $500,000. P. J. Bradshaw, International Life Bldg., archt.

Calif., Alameda—Apartment—A. A. Cantin., archt., 68 Post St., San Francisco, receiving bids 3-story, rein.-con., Grand St. and Central Ave., for L. Kaliski, c/o architect. $150,000. Noted Dec. 21.

Calif., Fullerton—Science—March 27, by Trustees Fullerton Union High School Dist., 1 and 2 story, concrete and brick addition to exceed $150,000. C. M. Winslow, Van Nuys Bldg., Los Angeles, archt.

Calif., Los Angeles—Auditorium—J. C. Austin, et al, archts., Detwiler Bldg., receiving bids 302 x 588 ft., concrete, brick and steel, Jefferson and Royal Sts., for Al Malaikah Temple, A. A. O. N. M. S., 1210 South Hope St. To exceed $1,000,000.

Calif., Los Angeles—University—Southwest University, receiving bids 4 story, 50 x 150 ft., rein.-con., South Hill St. A. C. Martin, Higgins Bldg., archt.

Calif., San Francisco — Office — Purch. Dept. of Pacific Gas & Electric Co., 445 Sutter St., receiving bids for 2,800 tons steel for 17 story, brick, steel and concrete, Market and Beale Sts. $1,500,000. Hunter & Hudson, Rialto Bldg., consult. mechanical engrs. Bakewell & Brown, 251 Kearny St., archts. C. H. Snyder, 251 Kearny St., engr. Noted May 11.

BIDS RECEIVED

N. Y., Albany—Bank—M. T. Reynolds, archt., 100 State St., opened bids March 5, 10 story and court, 24 x 175 ft., with 200 ft. steel tower in center, brick, steel and terra cotta, for City Savings Bank, 100 State St., from Feeney & Sheehan Building Co., 165 Montgomery St., $899,979; J. J. Finn & Son, 9 Cuyler Ave., $911,000; Empire Contg. Organization Co., Inc., 132 West 42nd St., New York, $914,180. Noted Feb. 15.

Md., Baltimore—Club House, etc.—Park Comrs., c/o J. C. Boyd, pres., Druid Hill Park, opened bids 1 story, 42 x 230 ft. club house and entrance to stadium, rein.-con., 33rd St., from J. Hiltz & Son, 345 St. Paul Pl., $168,549; R. B. Mason, 308 West Madison St., $187,780; North-Eastern Constr. Co., Lexington Bldg., $198,000.

Ia., Mason City — Home — Independent Order Odd Fellows, c/o A. W. Stubbs, supt. Odd Fellows Home, 3 story and basement, 60 x 160 ft., rein.-con., brick, tile and stone, general contract from Sugarman Constr. Co., 8th and Tuttle Sts., Des Moines, $88,730; M. M. Moen Co., Mason City, $89,700; Spencer Constr. Co., Spencer, $90,500. Former bids rejected. Noted Feb. 22.

Ore., Portland—School—Bd. Educ. constructing Grant School, 2 story, 75 x 392 ft. rein.-con. and brick, plain foundation, from Quinn & Burton, Ry. Exchange Bldg., $222,537; Hauser Constr. Co., Henry Bldg., $245,313; Parker & Bamfield, 64 East 3rd St. N., $252,996. Total cost $332,000.

Calif., Alhambra—School—Trustees Alhambra High School Dist., 2 story and basement, brick, general contract from Pacific Constr. Co., Baker-Detwiler Bldg., Los Angeles, $240,564; heating and ventilating from F. J. Donnelly, 1066 North Wilton Place, Los Angeles, $29,254. Noted Jan. 18.

Calif., Chico — Bank and Office — First Nat'l. Bank, 4-story, rein.-con., 3rd and Main Sts., from Hannah Bros., 142 Sonsome St., San Francisco, $156,000; F. Betz, Ochsner Bldg., Sacramento, $168,000. Noted Feb. 8.

Calif., Long Beach — School — City, 10 classroom, brick, Pacific and 14th Sts., general contract from Beswick Constr. Co., 230 Newport St., $132,238.

Calif., Los Angeles—Office—Chamber of Commerce, Chamber of Commerce Bldg., 8 story and basement, rein.-con. and brick, 12th St., general contract from C. J. Lubach, Merchants Natl. Bank Bldg., $1,370,000, bid for all work except elevators $2,169,000; elevators from Burnett Mfg. Co., 719 East 1st St., $114,828; structural steel from Baker Iron Wks., 912 North Bway., $501,170; marble and tile, from J. Musto-Sons-Keenan Co., 1064 South Bway., $181,625; electrical work, from G. L. Patterson Co., 646 Maple Ave., $36,796; steam heating and ventilating from J. Hokom, 4312 Moneta Ave., $89,087; ornamental iron work, from Bayer-Rothgeb Co., Santa Fe and Slauson Aves., $36,796; plumbing and gas fittings, from Howe Bros., 1198 San Pedro St., $80,418. Noted Feb. 15.

Calif., Oakland—Hospital—Supervs. Alameda Co., completing 4 story, rein.-con., Highland Hospital, 14th st., from Globe Indemnity Co., 444 California St., San Francisco, $156,344. Noted Feb. 22.

Calif., San Jose—Economics—State Bd., Sacramento, constructing 2 story, rein.-con. economics and manual arts (alternate bid for completion of economics building and omitting interior finish of manual arts), general contract from Sampel & Cody, Call Bldg., San Francisco, $127,600 and $117,600, J. Morton, Balboa Bldg., San Francisco, $129,196—$124,207, Larsen & Siegrist, 180 Jessie St., San Francisco, $142,977—$129,628; mechanical equipment (alternate bid for completion of work in economics building and rough in manual arts), from Latourette-Fical Co., 907 Front St., Sacramento, $35,385 and $27,885, Scott Co., 243 Minna St., San Francisco, $40,982—$34,282, Butcher & Serpa, San Jose, $43,250—$37,355. Noted Nov. 9.

Calif., Sawtelle—Home—Soldiers Home, 2-story, rein.-con., from Los Angeles Bldg. Co., Marsh Strong Bldg., Los Angeles, $190,444; Clark Bros., 5117 Hollywood Blvd., Los Angeles, $211,699; W. Simpson Co., Marsh Strong Bldg., Los Angeles, $219,415.

CONTRACTS AWARDED

Me., Portland — Business — Independent Publishing Co., Press-Herald Bldg., 7-story, 60x100 ft., rein.-con., brick and steel, plain foundation, Exchange, Market and Federal Sts., to J. J. Maloney Co., Benoit Bldg. Archts. est. $250,000.

Me., Portland — Hotel—Hotel Brunswick, 21-23 Preble St., 5-story, 61 x 125 ft., brick and steel, plain foundation, Preble St., to F. A. Rumery Co., 21 Portland St. Archts. est. $150,000. Noted Jan. 11.

Mass., Medford — School — St. Clements Roman Catholic Church, 2 story and basement, 60 x 110 ft., brick and steel, plain foundation, Boston Ave., to J. B. Byrne, 71 Magazine St., Cambridge. Archts. est. $150,000.

Mass., North Attleboro — School — St. Marys Roman Catholic Church, c/o P. McGee, pastor, 2 story and basement, 60 x 140 ft., brick and steel, plain foundation, Main St., to J. F. Griffin Co., 15 Exchange St., Boston. Archts. est. $150,000.

Conn., Hartford—Business—Lewis, Wilcox & Stone, 327 Trumbull St., 3 story, (ultimately 6 story) 110 x 150 ft., brick and steel, plain foundation, Allyn St., to W. A. Wilcox, 327 Trumbull St. Archts. est. $175,000.

Conn., New Haven—Club and Gymnasium—St. Michaels Young Mens Club, Greene St., 2 story and basement, 50 x 150 ft., brick and steel, plain foundation, Greene St., to Sola & Bounpane, 209 Clay St. Archts. est. $150,000. Noted Feb. 1.

N. Y., Albany — Library — Bd. Trustees Young Mens Assn., constructing Harmanus Bleecker Library, 2 story, 56 x 122 ft., brick, 30 ft. high, Dove and Washington Aves., to J. P. Sewell, 378 Morris St., $150,000.

N. Y., Brooklyn—Apartment—Fourth Ave. Contg. Co., c/o A. J. Simberg, archt. and engr., 1133 B'way., New York City. 4 story, 85 x 90 ft., brick, steel and stone, plain foundation, 4th Ave. and 74th St., here, by day labor. $175,000.

N. Y., Brooklyn — Apartment — J. A. Mears, c/o A. J. Simberg, archt. and engr., 1133 B'way., New York, 4 story, brick, steel and stone, plain foundation, Lincoln Pl., here, by day labor. $200,000.

N. Y., Bath—High School—Bd. Educ., general contract new high school, to Corning Building Co., 77 Cedar St., Corning. $167,031.

N. Y., Marcy—Hospital—State Hospital Comn., Albany, general contract farm colony building for 125 patients, at Utica State Hospital, Marcy Div., here, to C. J. Burgess, Foster Bldg., Utica, $169,980. Noted Feb. 22.

N. Y., New York—Apartment—De Voe Park Building Co., c/o J. M. Felson, archt. and engr., 1133 B'way., 6 story, 100 x 200 ft., brick, steel and stone, plain foundation, 188th St. and Webb Ave., by day labor. $250,000.

N. Y., New York—Apartment—S. Winnek, c/o G. G. Miller, archt. and engr., 1482 Bway., brick, steel and stone, plain foundation, Burnside Ave., by day labor. $250,000.

N. Y., Owego — School — Bd. Educ., 2 story, 120 x 145 ft., brick, to Mitchell Constr. Co., 332 Water St., Binghamton. Noted Feb. 8.

N. Y., Thiells — Assembly Hall, etc. — M. B. Patterson, pres. Bd. Mgrs. Letchworth Village, 7 Wall St., New York, general contract attendants home, assembly hall and industrial building, at Letchworth Village, here, to Fitzpatrick & MacArthur, 55 South Bway., Yonkers, $147,000; heating, to E. W. Tompkins Co., 27 Grand St., Albany, $25,448. Noted Jan. 11.

Pa., Hastings—Church—St. Bernards Catholic Church, 1 story and basement, 95 x 110 ft. brick and limestone, Beaver St., to Berkebile Bros., Swank Bldg., Johnstown, $150,000.

Pa., Phila.—Office—B. Abrams, Bellevue Court Bldg., 5 story and basement, brick, steel and stone, plain foundation, 726 Sansom St., to Modern Constr. Co., 242 Norris St., $150,000.

Pa., Pittsburgh — Church — St. Rosalia Roman Catholic Congregation, 5151 Greenfield Ave., 1 story and basement, 74 x 150 ft., Greenfield Ave., to J. A. Bergman & Sons, 414 Dunwiddie St. Archts. est. $163,000.

N. C., Franklinton—High School—For 3 story, public high school (gift of S. C. Vann), general contract to C. V. York, Citizens Bank Bldg., Raleigh, $165,000.

Tenn., Johnson City—Hotel—Johnson City Hotel Co., 10 story, brick and stone, concrete foundation, to E. W. Minter, 115 Bway., New York City. Noted Feb. 15.

O., Cleveland—Bank and Office—Atlas Savings & Loan Co., 5454 B'way., 5 story 37 x 100 ft., brick, steel and concrete, 5644 B'way., to Alexander Bros., Williamson Bldg. Archts. est. $150,000. Noted Feb. 1.

O., Cleveland—Commercial and Apartment—Commodore Impvt. Co., c/o M. Marmorstein, 1032 Schofield Bldg., 12 story and basement, 122 x 160 ft., brick, steel and concrete, Euclid Ave. and Ford Dr., masonry contract to Kravitz & Yokelson, 991 Parkwood Dr.; concrete work to E. F. Gibbons Constr. Co., Prospect-4th Bldg. Archts. est. $1,500,000.

O., Cleveland Heights (Warrensville, P. O.)—City Hall, Police and Fire Station—For 2 story, brick, steel and concrete, 2945 Mayfield Rd., to C. A. Carson Co., 7016 Euclid Ave., Cleveland, $177,798. Noted March 1.

O., Cleveland Heights (Warrensville P. O.)—School—Bd. Educ., 1005 Lee Rd., 2 story, 100 x 211 ft., brick, steel and concrete, Euclid Heights Blvd., to C. Peterson Co., 4500 Euclid Ave., Cleveland. Archts. est. $250,000. Noted March 8.

Mich., Detroit — Mercantile — A. Schloss, 647 Griswold St., remodeling present 4 story, and constructing additional 4 story, 25 x 120 ft. rein.-con., brick and steel, Woodward Ave. and John R St., to M. Bartholomael Sons & Co., 1574 East Warren Ave. Archts. est. $200,000.

Buildings (Continued)

Mich., Owosso—Schools—Bd. Educ., two 2 story and basement, rein.-con., brick and steel schools, plain foundations, 3rd and 5th Wards, to G. A. Burley Co., Flint, $200,000. Noted Jan. 11.

Ill., Chicago—Apartment—May & Rapp, 1517 Jarvis St., 3 story, 38 x 129 ft., rein.-con., brick and steel, 901 George St., to J. Traff, 3948 North Robey St. Archts. est. $150,000.

Ill., Chicago—Apartment—A. B. Phillips, c/o E. E. Hall, archt., 123 West Madison St., 4 story, 50 x 200 ft., rein.-con., brick and steel, 3638-48 Sheridan Rd., to Nelson & Lind, 6404 South State St. Archts. est. $500,000.

Ill., Chicago—Apartment—B. Weinstein, 3837 Grenshaw St., 3 story, 95 x 190 ft., rein.-con., brick and steel, 3428-32 West Monroe St., to Douglas Constr. Co., 3939 West Adams St. Archts. est. $225,000.

Ill., Chicago—Store and Office—See-Moon & Co., 919 West Randolph St., 2 story, 101 x 150 ft., rein.-con., brick and steel, Randolph and Morgan Sts., to Waldman Constr. Co., 105 North Clark St. Archts. est. $150,000. Noted Jan. 25.

Ill., Oak Park—Hospital—Oak Park Hospital, 4 story, 42 x 92 ft., rein.-con., brick and steel addition, Wisconsin St. near Madison St., to Harper & Buttendorf, 1628 North Blvd. Archts. est. $200,000.

Wis., Green Bay—Hospital—Deaconess Hospital, 742 Webster St., 3 story and basement, 64 x 148 ft., brick and concrete addition, plain foundation, to L. F. Schroeder Constr. Co., 13 East 1st St., Fond du Lac. Archts. est. $150,000. Noted Feb. 8.

Wis., Milwaukee — Apartment — Ranco Corp. c/o Rosman & Wierdsma, archts., 424 Jefferson St., 3 story and basement, 40 x 55 x 110 ft., brick, tile and concrete, plain foundation, Cass St., to R. Reisinger & Co., 464 Oakland Ave. Archts. est. $150,000 Noted Feb. 15.

Wis., Milwaukee — Apartment — H. C. Schwartz, 482 Van Buren St., 3 story and basement, 50 x 110 ft., brick, tile and concrete, plain foundation, to R. Reisinger & Co., 464 Oakland Ave. Archts. est. $150,000. Noted Feb. 22.

Ia., Cedar Falls—School—Bd. Educ., 2 story and basement, 106 x 142 ft., rein.-con., brick, tile and stone, general contract to Tapager Constr. Co., Albert Lea, Minn., $108,924. Noted Feb. 15.

Ia., Cedar Rapids—School—Sacred Heart Academy, 3 story and basement, rein.-con., brick and tile addition, Elmhurst Dr. and Mound Farm, general contract to Lightner Bros., Cedar Rapids Bank Bldg., $200,000. Noted March 1.

Ia., State Center—School—Bd. Educ., 2 story and basement, 60 x 110 ft., rein.-con., brick, tile, and stone, general contract to I. A. Ashby & Son, Mankato, Minn., $80,583. Noted Feb. 15.

Minn., Minneapolis—Apartment—J. Dexner, 2101 Garfield Ave. S., 3 story and basement, 105 x 120 ft., brick and stone, 36th St. and Aldrich Ave. S., general contract to L. Fleisher Co., 504 Plymouth Bldg. Total to exceed $150,000.

Kan., Wichita—Business—Western Newspaper Union, 525 East William St., 5 story, 50 x 140 ft., brick, plain foundation, to G. H. Siedhoff Constr. Co., Hotel Broadview Bldg. Archts. est. $200,000.

N. D., Jamestown—School—Bd. Educ., 3 story and basement, 150 x 180 ft., rein.-con., brick, tile and stone, general contract, to E. A. Moline, Bottineau, $135,410. Noted Jan. 25.

Mo., Kansas City — Church — Central Presbyterian Church, 3727 Forest Ave., 2 story and basement, rein.-con., brick and stone, Armour Blvd. and Campbell St., to L. Breitag & Son, c/o Shephard & Wiser, archts., 302 R. A. Long Bldg., $170,000. Noted Nov. 30.

Mo., Kansas City—Hotel and Business—Tri-State Realty Co., 5 story and basement, rein.-con. and brick, to Pratt-Thompson Constr. Co., Republic Bldg., $700,000.

Mo., St. Louis—Apartment—C. Gray, Choteau Trust Bldg., 6 story, 138 x 140 ft., rein.-con., brick and steel, plain foundation, Pershing St., to W. S. Frank, Century Bldg. Archts. est. $500,000.

Tex., Denton—Church—First Methodist Church, 2 story, brick, plain foundation, to C. N. Davis, Denton, $150,000. Noted Dec. 21.

Ore., Portland—Apartment—Lawrence, Moore Co., 212 Corbett Bldg., 2 story and basement, 95 x 170 ft., brick and tile, plain foundation, 18th and 19th Sts. and Hawthorne Ave., to Thomas & Thomas, Henry Bldg., $150,000.

Ore., Portland—Hospital—Shrine Hospital Assn., 2 and 3 story, 105 x 190 ft., 84 x 108 ft. and 84 x 108 ft., rein.-con. and brick, plain foundation, 82nd St. and Sandy Blvd., to Stebinger Bros., 617 Sheffield Ave., $175,000.

Calif., Los Angeles—Club—Friday Morning Club, 6 story, rein.-con., general contract to Winter Constr. Co., Los Angeles Ry. Bldg., $303,500. Above contract does not include stone work, sheet metal, marble and tile, hardwood floors, electric, plumbing, heating and ventilating or painting.

Calif., Los Angeles—Office, Store and Hotel—M. Elasser, c/o Swasey & McAfee, archts., Hibernian Bldg., 3 story, brick, Central Ave., to Macdonald & Kahn, Loews State Bldg., $250,000.

Calif., Oakland — Store — Kahn Bros., Bway. between 16th St. and San Pablo Ave., 6 story, 174 x 230 ft. rein.-con. addition, with 100 x 130 ft. wing, brick exterior, Bway. nea. San Pablo Ave., to MacDonald & Kahn, 130 Montgomery St., San Francisco. Work will probably be done on cost plus percentage basis.

Calif., San Francisco—Apartment—L. Johnson, 2260 19th Ave., will build 6 story and basement, concrete, Bush St. near Leavenworth St., by day labor. $150,000. Noted Jan. 4.

Ont., Toronto — Exchange — Bell Telephone Co., 76 Adelaide St. W., 8 story and basement (ultimately 12 story), 100 x 100 ft., 135 ft. high, 4 story stone and balance brick, Sheppard and Temperance Sts., foundation to Jackson-Lewes Constr. Co., Ryrie Bldg., $170,000; steel frame to Dominion Bridge Co., Imperial Life Bldg. Total est. cost $1,000,000.

Federal Government Work

PROPOSED WORK

N. Y., New York—Dredging—U. S. Engineer, 2nd Dist., plans dredging and rock removal in New York and New Jersey Channel.

Del., Wilmington—Excavation—U. S. Engineer, Wilmington, plans dredging Chesapeake & Delaware Canal.

Tenn., Nashville—Lock Gates—U. S. Engineer plans steel lock gates for Lock 8, Cumberland River.

BIDS DESIRED

N. Y., Oswego—Stone-Work, etc.—March 30, by Treas. Dept. at office J. A. Wetmore, acting supervising archt., Wash., D. C., restoration of stone-work, new roof, gutters, etc., for U. S. Post Office and Custom House, here; adv. this issue.

N. Y., Shinnecock—Dwelling, etc.—April 3, by Treas. Dept. at U. S. Coast Guard Headquarters, Darby Bldg., Wash., D. C., constructing dwelling and accessories at Shinnecock Coast Guard Sta., Long Island; adv. this issue.

N. Y., Staten Island—Acetylene Cylinders—March 29, by Supt. of Lighthouses, furnishing 450 seamless drawn steel acetylene cylinders.

Pa., Phila.—Coal—March 22, by U. S. Engineer, 815 Witherspoon Bldg., furnishing 15,000 tons semi-bituminous coal, for floating plant. Noted March 1.

Pa., Phila. — Fuel Oil — March 26, by U. S. Engineer, 815 Witherspoon Bldg., furnishing 40,000 bbl. fuel oil for vessels in Phila. Noted March 1.

Va., Norfolk—Removing Fenders—April 11, at office U. S. Engineer, removing fenders and replacing new ones at Core Creek Bridge; adv. this issue.

Miss., Vicksburg—Metal, etc.—April 7, at office U. S. Engineer, Drawer 421, Vicksburg, furnishing and delivering about 467,000 lb. structural metal for locks and Dams 5 and 8, Ouachita River, La. and Ark., also erecting and modifying gates; adv. this issue. Noted March 1.

La., New Orleans—Dredging—April 9, by U. S. Engineer, dredging Intracoastal Waterway between Bayou Black and Bayou Terrebonne, La.; adv. this issue.

Tenn., Memphis—Coal—March 22, at office Mississippi River Comn., 1st and 2nd Dists., Customhouse, for coal in barges; adv. this issue.

Tenn., Memphis—Rope—April 3, at office Mississippi River Comn., 1st and 2nd Dists., Customhouse, furnishing and delivering manila rope; adv. this issue.

Tenn., Memphis—Wire, etc.—March 26, at office Mississippi River Comn., 1st and 2nd Dists., Customhouse, furnishing and delivering galvanized wire, wire strand, staples and wire rope clips; adv. this issue.

Ky., Louisville — Cement — April 9, at office U. S. Engineer, Louisville, furnishing and delivering cement for Dams 44 and 45, Ohio River; adv. this issue.

O., Cincinnati—Gates—March 28, at office U. S. Engineer, furnishing, delivering and erecting gates for Locks 36, 38 and 44, Ohio River; adv. this issue.

Tex., Galveston—Barges—April 16, at office U. S. Engineer, furnishing and delivering steel water barges; adv. this issue.

Calif., San Diego—Water Softening Plant—Spec. 4768—March 21 (change of date), by Bureau Yards & Docks, Navy Dept., Wash., D. C., water softening plant, here. Noted March 8.

Calif., San Francisco—Dredge Tender—April 6 at office U. S. Engineer, Custom House, constructing, testing, delivering, one 40 ft. motor dredge tender complete.

BIDS RECEIVED

La., Alexandria — Post Office — Treas. Dept. at office Supervising Architect, Wash., D. C., for extension to Post Office, here, from Devault & Deitrick, Canton, O., (street address not available) $59,000, (2) $1,180; Pearce Bros., Inc., 220 West 42nd St., New York City, $61,900, (2) $1,250; Algernon Blair, 11 South Lawrence St., Montgomery, Ala., $72,452, (2) $1,600.

Ariz., Nogales—Post Office—Treas. Dept., Wash., D. C., opened bids Feb. 19, for U. S. Post Office and Custom House, here, from Pearce Bros., 220 42nd St., New York City, $83,665, 12 months; Farmer & Son, P. O. Box 1083, Nogales, Ariz., $109,885, 12 months; C. Weitz Sons, 713 Mulbery St., Des Moines, Ia., $109,900, 12 months. Noted Jan. 25.

Calif., Eureka—Stone—U. S. Engineer, Custom House, San Francisco, furnishing 80,000 tons stone for jetty construction at entrance to Humboldt Bay, here, from A. D. Kern, Lumber Exch. Bldg., Portland, Ore., Proposition 3, Class 1 $3.81 per ton, Class 2 $3.67, Class 3 $3.45, Class 4 $2.25. Noted Feb. 1.

Calif., Mare Island—Extension to Shell House, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to shell house and magazine at Navy Yard, here (1) work complete from J. Pringle, 212 Anita, Rd., Burlingame (1) $88,500 (200 days) (2) $16.50 (3) $0.05 (4) $5,625; D. Zane Co., Inc., 233 Bway., New York City, (1) $95,192 (240 days) (2) add $24, deduct $7.30 (3) add $0.50 (4) add $6,794 (15 days) deduct $4,860; Tibbetts Pacific Co., 16 California St., San Francisco (1) $92,789 (200 days) (2) add $21 deduct $10 (3) add $0.52 deduct $0.02 (4) add $6,571 deduct $6,000 telegraphic modification (1) $91,389. Noted Feb. 1.

Calif., Mare Island—Riprapping—Spec. 4775—Bureau Yards & Docks, Navy Dept., Wash., D. C., furnishing and placing approximately 50,000 tons hard stone riprap to form embankment along longitudinal Dike at Navy Yard, here from Healy-Tibbits Constr. Co., 64 Pine St., San Francisco, $1.8375 (240 days); Blake Bros. Co., 204 Balboa Bldg., San Francisco, $2.94 (75 days). Noted Feb. 15.

CONTRACTS AWARDED

W. Va., Huntington—Barges—U. S. Engineer, Huntington, constructing and delivering 3 steel barges, to Riter-Conley Mfg. Co., Leetsdale St., Pittsburgh, Pa., $32,190. Noted Feb. 8.

Ala., Florence—Castings, etc.—U. S. Engineer, Florence, furnishing castings and other parts for regulating gates of Wilson Dam, to Charles Ward Eng. Co., Charleston, W. Va., $119,300. Noted Jan. 25.

Ala., Florence—Tanks—U. S. Engineer, Florence, furnishing displacement tanks for regulating gates of Wilson Dam, to J. S. Schofield, Hammond and Boundary Sts., Macon, Ga., $136,300. Noted Jan. 25.

Tex., Galveston—Dredging—U. S. Engineer, dredging channels at Brazos Island Harbor, to J. Jacobson, 2217 Ave. C, Galveston, $181,200. Noted March 8.

Miscellaneous

PROPOSED WORK

Motor Street Flusher—Jamestown, N. Y.—Plans to purchase new, double unit motor street flusher. $8,500. L. O. Bergman, city engr.

Park — Hightstown, N. J. — Plans memorial park, incl. retaining wall and dam at Peddie Lake. $25,000. E. A. MacMillan, Princeton, engr.

Well Drilling—Tidioute, Pa.—Harmony Oil & Gas Trust, c/o N. V. Osmer, Franklin, plans extensive oil and gas well drilling operations on 350 acre tract in Limestone Twp. $25,000.

Grain Elevator — Norfolk, Va. — Port Comn. having plans prepared gallery addition to grain elevator, Hampton Rds. $180,000. Folwell & Ahlskog, Sewells Point, archts.

Pier—Sheboygan, Wis.—Plans pier with docking facilities, hoisting and unloading machinery, etc., on Lake Michigan near South 8th St. J. Steimle, city clk. Engineer not selected.

Dock—Superior, Wis.—Great Northern Ry., Railway Bldg., St. Paul, Minn., plans to rebuild No. 1 ore dock at Allouez Bay; plans call for reconstruction of inner 188 pockets and increasing height of dock from 73 to 77 ft., timber construction. $1,500,000. R. Rudd, pres.

Miscellaneous (Continued)

Tunnel — Lansing, Kan. — State Prison Comn., Topeka, granted $40,000 for tunnel in state prison, here, also $40,000 for hospital equipment.

Fire Alarm System—Wichita, Kan.—City Manager soon takes bids for fire alarm system, present plan includes 82 alarm boxes, electric wiring. $60,000. P. M. Brockway, city engr.

Fire Alarm Equipment and Underground Cables, etc.—Kansas City, Mo.—See "Buildings."

Parks, etc.—University (St. Louis, P. O.), **Mo.**—April 4, to vote on $200,000 bonds for acquiring city parks, playgrounds and equipment.

Electrification—Dallas, Tex.—St. Louis & Southwestern R.R., better known as Cotton Belt R.R., Cotton Belt Bldg., Dallas, and Texas Electric R.R., Interurban Bldg., Dallas, plan to electrify railroad from Plano to Greenville. $600,000. J. G. Hailey, electrical engr. of Texas Electric R.R.

Parks—Dallas, Tex.—April 3, to vote on $325,000 bond issue for parks. G. D. Fairtrace, city engr.

Lighting Distribution System — Helena, Okla.—See "Waterworks."

Portland Cement—Oregon City, Ore.—A. J. Lewthwaite, mgr. Crown Willamette Paper Co., 736 Pittock Blk., receiving bids several thousand barrels cement.

Park Improvements—Eureka, Calif.—Defeated $100,000 bonds to purchase and improve park site. Noted Dec. 7.

Rails and Equipment—Eureka, Calif.—City voted $100,000 bonds to purchase rails, ties, cars and equipment for municipal railway system. J. Griffiths, city supt. pub. wks. Noted Dec. 7.

Gas Pipe Line—San Francisco, Calif.—Pacific Gas & Electric Co., 445 Sutter St., plans 4,192 ft. 12 in. c.i. gas mains in Folsom St. between The Embarcadero and 3rd Sts.; gas mains to points commencing at Army and De Haro Sts., 2,840 ft. 26 in., 5,409 ft. 24 in., 8,661 ft. 20 in. and 10,267 ft. 12 in. pipe.

Oil Storage Terminal—San Pedro, Calif.—Southwest Shipbuilding Co., San Pedro, plans 8 oil storage tanks, capacity of each to exceed 80,000 bbl., also 1,300 ft. pile wharf. To exceed $250,000. Private plans.

Canal and Harbor Improvements, etc.—Canada—Dominion Government, Ottawa, plans following work during 1923: construction on Welland Ship Canal, $12,200,000, improvements $100,000; new construction on Trent Canal $210,000, improvements $309,000; improving Chambly Canal $48,000, Lachine Canal $56,000, and Soulanges Canal $216,000; new steel gate lifter on Saulte Ste. Marie Canal $5,000; improving Port Arthur and Ft. William harbors $135,000, St. John Harbor $860,000, Toronto Harbor $433,000, Matane Harbor $100,000; repairs to Chicoutini Wharf $29,500, L'Islet Wharf $25,000, Point aux Trembles Wharf $30,400, St. Michel de Bellechasse Wharf $25,000; extending wharf at Grand River, $29,000; new wharves at Grondines $62,000, Halleyburg $26,400; breakwaters and piers at Cobourg $28,600, Port Colborne $200,000, Toronto Island $30,000, Whitby $27,500; new cable for Vancouver Island telegraph and telephone lines $5,500.

Subway—Mimico, Ont.—Plans subway under Grand Trunk Ry., concrete abutments, steel deck. $135,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs. Noted Jan. 11.

Grain Elevator—Port Arthur, Ont.—Saskatchewan Co-operative Elevator Co., Regina, Sask., having plans prepared for rein.-con. addition to grain elevator, here. $500,000. C. D. Howe & Co., Whalen Bldg., engrs.

Transmission Line—Timmins, Ont.—See "Industrial Works."

Electric Light System—Woodstock, Ont.—Plans to extend electric light and power systems. $25,000. J. Morrison, city clk.

BIDS DESIRED

Heating and Ventilating Apparatus — Brooklyn, N. Y.—March 23, by W. H. Gompert, archt., Flatbush Ave. etxension and Concord St., installing heating, ventilating and temperature regulating apparatus in New Utrecht High School, 79th and 80th Sts., 16th to 17th Aves., for Bd. Educ., 500 Park Ave., New York.

Asphalt Binder—New York, N. Y.—March 20, by Bd. Purchase, Municipal Bldg., furnishing and delivering asphalt binder and binder oil ,to Dept. Parks-Bronx. G. A. Whalen chn.

Asphalt Wearing Surface Sand—New York, N. Y.—March 20, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., furnishing and delivering 4,000 cu.yd. asphalt wearing surface sand.

Tractor—Potsdam, N. Y.—Bd. Village Trustees taking bids tractor and snow plow. To exceed $1,000. I. H. Kendall, pres.

Coliseum—Syracuse, N. Y.—March 29, by G. R. Lunn, pres. State Fair Comn., Capitol, Albany, for coliseum at New York State Fair Grounds, here. S. W. Jones, State archt.; adv. this issue.

Trucks, etc.—Trenton, N. J.—March 20, by Bd. Freeholders Mercer Co., 2 auto trucks, 2 mechanical twin hoists, steel dump bodies, 5 ton capacity. $14,000. H. F. Harris, Court House, engr.

Retards—Clayton, Mo.—March 23, by E. R. Methudy, secy. St. Louis Co. River Impvt. Assn., c/o St. Louis Co. Bank, Clayton, constructing standard current retards in Missouri River between Franklin Co. line and St. Charles, to provide protection for 12,000 acres land. J. Jacoby, c/o St. Louis Co. Bank, engr.

Stadium — East Cleveland (Cleveland P. O.), O.—April 9, by Bd. Educ., new stadium for Shaw Field, 10,000 seating capacity. Osborn Eng. Co., 2848 Prospect Ave. S. E. Cleveland, archts. and engrs. Noted Feb. 15.

Concrete Aggregates—Michigan—March 29, by State Hy. Dept., Lansing, producing and stacking 59,500 cu.yd. concrete aggregates on Federal Aid Project 101, Van Buren Co. F. F. Rogers, comr.

Grader—Green Bay, Wis.—Bd. Pub. Wks. taking bids for power grader. W. L. Kerr, City Hall, secy. Private plans.

Lighting System — St. Paul, Minn. — March 19, by H. W. Austin, city purch. agt., installing single service lighting system in Selby Ave. from Summit Ave. to Lexington Ave. and in Western Ave. from Laurel to Marshall Aves. G. M. Shepard, city engr.

Road Oil—St. Paul, Minn.—March 19, by H. W. Austin, city purch. agt., 700,000 gal. road oil for 1923. G. M. Shepard, city engr.

Transmission Line — Kanorado, Kan. — March 27, by Rollins & Co., engrs., 521 Railway Exch. Bldg., Kansas City, Mo., 16½ mi. electrical transmission line from here to Goodland, also substations at Kanorado and Goodland. $25,000.

Electroller System—Berkeley, Calif.—City receiving bids 75 electrollers in Telegraph Ave. from south city limits to Allston Way, incl. globes, lamps and tops together with underground cables and conduits. To exceed $25,000. C. L. Huggins, city engr.

Rock Crushing Plant Equipment, etc.—San Francisco, Calif.—Pratt Building Material Co., Hearst Bldg., in market for rock crushing machinery, steam shovel, belt conveyors and machine shop equipment, for rock crushing and gravel plant at Folsom. C. F. Pratt, pres.

Steel—San Francisco, Calif.—See "Buildings."

Coaling Plant—Ignace, Ont.—Canadian Pacific Ry., Windsor St., Montreal, Que., taking bids 280 ton coaling plant, here.

BIDS RECEIVED

Sand, etc.—Niagara Falls, N. Y.—Furnishing (1) 3,200-3,800 tons sand (2) 75,-100 tons limestone dust (3) 500-1,000 tons stone screenings (4) 2,000-3,000 bbl. cement (5) 10,000-20,000 vitr. red paving bricks, from E. F. Sandstrom, Attica, (1) $0.70 per ton (2) $5.90 (3) $0.93 (5) $51.50; Concrete Stone & Coal Co., Gillett Court, (1) $0.71 (4) $3.03; Hillcrest Sand Co., Stanford, Ont., (1) $1.75; Empire Builders Supply Co., North Tonawanda, (3) $1.25 (4) $3.03 (5) at warehouse $51.50, at cars $44.50; Consolidated Fuel & Supply Co., Niagara Falls (street address not available) (3) $2.10 (4) $3.60 (5) at site of work $56, at warehouse $50.

Trailers — San Jose, Calif. — Supervs. Santa Clara Co., furnishing one or more trailers, from Holt Mfg. Co., South Aurora St., Stockton, $945; Utility Sales Co., Phelan Bldg., San Francisco, $1,080; Benson & Weaver, 89 South Market St., $1,275-$1,475. Noted Feb. 22.

CONTRACTS AWARDED

Refined Asphalt, etc.—Brooklyn, N. Y.—E. Riegelmann, boro pres., Boro Hall, furnishing and delivering 400,000 gal. refined asphalt and 300,000 gal. asphalt road oil, to Standard Oil Co., 26 Bway., New York, $22,320 and $16,450 respectively; 4,500 cu.yd. binder stone, to Calvin Tompkins Co., 30 Church St., New York, $9,945; 2,000 net tons limestone dust, to New York Trap Rock Corp., 101 Park Ave., New York, $10,620; 10,000 cu.yd. asphalt sand, to J. Grielo, $13,800; 8,000 bbl. cement, to Burroughs Building Material Co., Johnson Ave. and Newtown Creek, $22,960; 50,000 asphalt paving blocks, to Hastings Pavement Co., 25 Broad St., New York, $4,711; 50,000 Grade 1 granite blocks, to J. Meehan & Son, 74 Cortlandt St., New York, $6,725; 50,000 wood paving blocks, to Amer. Creosoting Co., 17 Battery Pl., New York, $3,225; 5,000 cu.yd. steam cinders, to D. Negri & Sons, 792 Maple Ave., $3,600. Noted Feb. 8.

Swimming Pool, etc.—Cortland, N. Y.—Commissioner of Education, Albany, general contract swimming pool at Cortland Normal School, here, to A. E. Stephens Co., 143 State St., Springfield, Mass., $21,750; filters, to Bates Co., West Water St., Syracuse, $7,995. Noted Feb. 22.

Cement, etc.—New York, N. Y.—J. Mifler, pres. Manhattan Boro, Municipal Bldg., furnishing and delivering 20,000 bags cement, to J. A. McCarthy, 551 Extension St., $14,500; 3,000 cu.yd. paving sand and 2,000 cu.yd. paving grits, to C. and C. Contg. Corp., 224 Jay St., Brooklyn, $4,710 and $4,380 respectively; 50,000 granite paving blocks, to J. Meehan & Son, 74 Cortlandt St., $6,588; 600 tons asphaltic paving cement, to Standard Oil Co., 26 Bway., $11,802; 3,000 cu.yd. coarse aggregate, to Calvin Tompkins Co., 30 Church St., $6,840; 3,000 tons inorganic dust, to New York Trap Rock Corp., 101 Park Ave., $19,950. Noted Feb. 1.

Underground Fire Alarm System — New York, N. Y.—T. J. Drennan, fire comr., Municipal Bldg., to Croker Electric Co., 20 West 30th St., Item 1 $3,429, J. Sudgen, 100 5th Ave., Item 2 $10,997, Crocker Electric Co., 20 West 30th St., Item 3 $4,260. Noted Feb. 8.

Coaling Station—Rochester, N. Y.—New York Central R.R., Grand Central Terminal, New York City, coaling station, concrete and steel, Atlantic Ave., here, by day labor. $70,000.

Concrete, Bituminous and Crushed Stone —Phila., Pa.—Furnishing mixed concrete to West Jersey Sand & Supply Co., Delaware Ave. and Marlboro St., $10,662; bituminous material to Atlantic Refining Co., 1225 Chestnut St., $21,450; crushed stone, to Birdsboro Stone Co., Land Tile Bldg., $55,120. Noted March 8.

Asphalt Plant—Cleveland, O.—Cleveland Trinidad Paving Co., The Arcade, 1 story asphalt plant, steel and concrete, Euclid and Bliss Rds., by day labor. $75,000. Private plans.

Street Lighting — Owen, Wis. — See "Streets and Roads."

Flushers—Mankato, Minn.—City, 1 motor flusher, combined power flusher and gravity sprinkler, to Tiffin Wagon Co., Tiffin, O., $6,497. Noted Jan. 18.

Grand Stand—Kansas City, Mo.—Kansas City Baseball Club, 18th and Walnut Sts., single deck, steel and concrete grand stand, 20,000 seating capacity, to D. Munro, 716 Adams Ave.; structural steel, to Kansas City Structural Co., 704 Orear-Leslie Bldg. Archts. est. $250,000. Noted Feb. 15.

Levee—Whitham, Mo.—See "Excavation, Drainage, Irrigation."

Gas Mains—Dallas, Tex.—See "Streets and Roads."

Electroller System—Berkeley, Calif.—Installing electroliers in portions of University Ave., et al., to F. E. Newberry Co., 417 Webster St., Oakland, $37,518. Noted March 1.

Transmission Line—Redwood City, Calif.—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, will construct 25 mi. transmission line, through San Mateo Co. from point south of Redwood City to Visitacion Valley, by day labor. To exceed $500,000.

Structural Steel—San Francisco, Calif.—City and San Francisco Co., furnishing, delivering and erecting structural steel for Moccasin Creek power plant of Hetch Hetchy Project, to Union Constr. Co., Balfour Bldg., $60,720. Noted March 8.

Lighting System—Santa Monica, Calif.—Constructing rein.-con. lighting system in Santa Monica Ave., to D. S. McEwan, Santa Monica, $33,487.

Hydraulic Machinery—Quebec, Que.—Quebec Development Co., 116 Cote de la Montayne, hydraulic machinery for use in development of 1,000,000 hp. at dam on Saguenay River, to Canadian Allis-Chalmers Co. Ltd., 162 St. Antoine St., Montreal, $1,500,000. Noted Dec. 14.

Generators — Peterboro, Ont. — Hydro Electric Power Comn., University Ave., Toronto, two 54,000 K.V.A., 12,000 volt, vertical, 3 phase, 25 cycle electrical generators, for Queenston-Niagara power plant, here, to Canadian General Electric Co., 212 King St. W., Toronto, $1,000,000.

Electric Light and Power System—Sutton, Ont.—Plans to install electric light and power system. $30,000. Work will be done under supervision of Hydro Electric Comn., University St., Toronto.

Grain Elevator and Wharf—Vancouver, B. C.—E. A. Woodward, Grain Exch., Winnipeg, Man., new 700,000 bu. grain elevator, concrete storage house, timber work house and wharf on Burrard Inlet, to Dominion Constr. Co. Ltd., 509 Richards St., $500,000 on percentage basis. Noted Feb. 8.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: Mar. 20.

Narrows Siphon No. 2 Contract 198

New York, N. Y.

Sealed bids will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chambers Streets, New York City, until 11 a.m., Eastern Standard time, on Tuesday, March 20, 1923, for Contract 198, for the construction of Narrows Siphon No. 2, a 42-inch, flexible-jointed, cast-iron submarine pipe-line about 8,800 feet long, with shore connections of 42-inch and 48-inch bell-and-spigot cast-iron pipes about 560 feet in length. This siphon is a portion of the Catskill aqueduct and will extend across the Narrows of New York harbor from 86th Street and Shore Road, Bay Ridge, Brooklyn, to Vanderbilt Avenue and Bay Street, Clifton, Staten Island.

The work consists principally of furnishing approximately 4,650 tons of submarine pipes, dredging a trench in which the pipeline will be laid across the Narrows, including the shore ends, and refilling over the pipe-line. The land work is to include furnishing and laying about 330 tons of cast-iron pipe and special castings of various sizes, furnishing and setting two large meters, building chambers and manholes and doing other incidental work.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, etc., can be obtained at the office of the Secretary at the above address, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Chief Engineer at the above address.

GEORGE J. GILLESPIE,
President.

JAMES P. SINNOTT,
PHILIP F. DONOHUE,
Commissioners, Board of Water Supply.
BENJ. F. EINBIGLER, Secretary.

Bids: Mar. 29.

Levee Work

Beardstown, Ill.

Sealed bids will be received by the Commissioners of the South Beardstown Drainage and Levee District of Cass County, Illinois, at the First State Bank Building, at Beardstown, Illinois, up to the hour of 2:00 p.m., March 29, 1923.

The work for which bids are asked is as follows:

A—Enlarging old sand levee, Stations 0 to 18, by hauling sand. Approximately 14,000 yds. (Wheeler or wagon work.)

B—Enlarging old Sand Levee, Stations 18 to 67, approximately 32,000 yds. (Drag line or floater.)

C—Enlarging old dirt levee, Stations 67 to 329, approximately 120,000 cu.yds. (Floater with 90 ft. boom.)

D—Building of 5 dams across borrow pit.

Monthly payments in cash, to the extent of 80% of work performed, will be paid on estimates of the Engineer. Certified check for $500.00 must accompany each bid.

Plans and specifications on file and may be seen at the office of L. B. Kinsey, Engineer, Pekin, Illinois, and John McDorman, Secretary, Beardstown, Illinois.

Bids will be received on separate sections or on the whole work.

L. B. KINSEY,
Civil Engineer,
Pekin, Illinois.

OFFICIAL PROPOSALS

Bids: Mar. 27.

Bridge

Wilkes-Barre, Pa.

Sealed proposals will be received at the office of the City Clerk, City Hall, Wilkes-Barre, Pa., until twelve o'clock noon, Tuesday, March 27, 1923, for the construction of the South Street Bridge in the City of Wilkes-Barre, Pa., in accordance with the plans and specifications on file in the office of the City Engineer.

The bridge will cross the Pennsylvania, Lehigh Valley and Central Railroad of New Jersey's tracks, extend along the north side of South Street, from Washington Street to Park Avenue, be composed of steel trusses over the railroad tracks and reinforced concrete arches and retaining wall approaches thereto. The total length is about 1,735 feet.

Instructions to bidders, plans, specifications, proposal and contract forms may be seen in the office of J. E. Greiner & Company, Consulting Engineers, Lexington Building, Baltimore, Md., and Union Arcade Building, Pittsburgh, Pa., and can be obtained at the office of the City Engineer on and after Tuesday, Macrh 6, 1923, for a deposit of $10.00 for each set, which deposit will be refunded on the day of the letting to those submitting bids, provided the sets are returned complete and in good condition.

Each proposal must be accompanied by a certified check on a solvent bank or trust company in the sum of Five Thousand ($5,000.00) Dollars, made payable without reservations to the Treasurer of the City of Wilkes-Barre, Pa., as a guarantee that if the proposal be accepted a contract will be entered into.

Proposals must be made so as to conform with the instructions to bidders in every respect. Must be endorsed "Proposals for South Street Bridge" and addressed to Fred H. Gates, City Clerk. The City reserves the right to reject any or all bids and to award the contract as may be deemed to the best interests of the City.

MARTIN C. MURRAY,
Superintendent of Streets & Public Improvements.

Bids: Mar. 24.

Street Improvement

Charlottesville, Va.

Sealed proposals will be received by the City Manager of the City of Charlottesville, Va., until 12 o'clock, noon, on March 24, 1923, for Street Improvement; consisting of grading, curbing, paving and resurfacing.

Alternate proposals will be received for various types of surfaces. Estimated square yardage for this proposal 120,200. The City Manager reserves the right to increase or decrease this quantity.

Plans and specifications are on file in the office of the Engineer. Copies of the specifications and proposal blanks may be obtained from the City Manager.

Each proposal must be accompanied by a certified check for ten thousand dollars ($10,000) payable to the Treasurer of the City of Charlottesville, Va.; to be returned in case the proposal is rejected or to be forfeited in case the bidder should refuse to enter into a contract in accordance with his proposal and the specifications.

The right is reserved to reject any or all bids.

BOYD A. BENNETT,
City Manager.
Charlottesville, Va.

OFFICIAL PROPOSALS

Bids: March 20.

Park Slope and Fort Hamilton Conduits

CONTRACT 197

New York, N. Y.

Sealed Bids will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chambers Streets, New York City, until 11 a.m., Eastern Standard time, on Tuesday, March 20, 1923, for Contract 197, for the construction of the Park Slope and Fort Hamilton conduits, portions of the City conduits of the Catskill aqueduct, extending from Shaft 23 of the City tunnel at Schermerhorn street and Third avenue along Third avenue, Dean street, Fourth avenue, Douglass street, St. Johns place, Eighth, Prospect, Tenth and Gravesend Avenues, Fort Hamilton parkway and 86th street to Shore road and along Shore road to 79th street, in the Borough of Brooklyn, New York City.

The conduits will consist of about 39,290 linear feet of 72-inch and 2,140 linear feet of 66-inch steel pipe, about 310 tons of cast-iron pipe and special castings of various sizes, a Venturi meter, valves and other appurtenances, all of which will have to be maintained for one year.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, etc., can be obtained at the office of the Secretary at the above address, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Chief Engineer at the above address.

GEORGE J. GILLESPIE,
President.

JAMES P. SINNOTT,
PHILIP F. DONOHUE,
Commissioners, Board of Water Supply.
BENJ. F. EINBIGLER,
Secretary.

Bids: March 20.

Sewers

Paducah, Ky.

Sealed proposals will be received until 10 o'clock a.m., Tuesday, March 20, 1923, at the office of the Commissioner of Public Works, City Hall, Paducah, Kentucky, for the construction of the following, 14,833 feet of sewers:

Diameter	Length	Average Depth
42"	407'	8.0'
36"	2,817'	11.7'
33"	307'	11.6'
21"	2,286'	10.3'
18"	1,725'	11.1'
15"	2,845'	13.3'
12"	3,506'	7.8'
10"	940'	11.0'

Borings and test pits indicate clay, sand and gravel.

Materials of construction: Concrete Pipe, Monolithic Concrete, Segment Block, Vitrified Clay, Cement Pipe or Brick.

Certified check for $2,000.00 to accompany bids. Money already available and payments will be cash, 85% monthly.

Right is reserved to reject any or all bids.

Plans and specifications will be furnished upon deposit of $3.00, which will be refunded upon return of same.

HENRY A. PULLIAM,
Commissioner of Public Works
and Chief Engineer.